### EXAMINATION PAPERS.

### ENGLISH.

### LOWER GRADE.

### Thursday, 12th June.-10 A.M. to 12.30 P.M.

Every Candidate should answer nine questions (AND NOT MORE THAN NINE), of which five must be in Section I. I, two in Section II., and two in Section III. Questions 1, 2, and 3 must be attempted.

#### SECTION I.

- 10. 1. Write out, and punctuate, the passage for dictation.
  - 2. Write an essay, of about two pages, on one of the following subjects :---
    - (a.) The advantages of Travel.
    - (b) Epitaphs.
  - 3. Paraphrase the following lines, so as to bring out their full meaning :---

From the black-red ether, bursting broad, Sallies the sudden whirlwind. Straight the sands, Commov'd around, in gathering eddies play : Nearer and *neurer still* they darkening come ; Till, with the general all-involving storm Swept up, the whole continuous wilds arise ; And by their *noon-day* fount dejected *thrown*, Or sunk at night in sad disastrous sleep, Beneath descending hills, the caravan Is buried *deep*. In Cairo's crowded streets Th' impatient merchant, wondering, waits in vain, And Mecca suddens at the long delay.

 Show, by an examination of any three lines of the above passage, how it differs from prose.

15.

VALUE

VALUE

10.

10

412

5. Parse the five words italicised in question 3.

Make a general analysis of the following :---

- "Without being so presumptuous as to hope to emulate the rich humour, pathetic tenderness, and admirable tact which pervade the works of my accomplished friend, I felt that something might be attempted for my own country of the same kind with that which Miss Edgeworth so fortunately achieved for Ireland."
- 6. Write ten short sentences, each containing one of the following words correctly used so as to bring out its full meaning: affect, sumptuous, universal, athwart, collusion, wherewith, mitigate, continuous, mutual, howsoever.
- Point out the faults in the following sentences. Say why you consider them faults, and re-write each sentence in an improved form :—
  - (a.) I am neither an ascetic in theory or practice.
  - (b.) A clergyman in Perthshire wishes to purchase a small pony to do the work of a minister.
  - (c.) Another bullet hit the butt of his rifle, thus saving his life. (d.) Entering the drawing-room the conviction came to him that
  - he was in the dwelling of an individual of refined taste.
  - (e.) Nature has denied to us the power of closing our ears which she gave us in respect of our eyes.
- Name one famous literary work by each of the following writers, indicating the kind to which it belongs and the approximate date of its appearance :--Keats, Pope, Hooker, Dryden, Browning, Jeremy Taylor, Cowper.

Give a fuller description of any one of the above works.

#### SECTION II.

- Write a short account of any one of the following reigns or ministries, with special regard to (a) domestic changes, (b) wars :--Alfred the Great, Henry III., Edward III., Henry VIII., James I., Charles II., Walpole, George III., Palmerston.
- 10. Give some account of any four of the following, so as to show their significance and importance in British bistory Cessar's Inva sion of Britain, Celic Christianity, Danegeld, Domesday Book, The Maid of Norway, The White Ship, The Crusades, Edward L's Invasion of Wales, The First English Parliament, The Poll-tax, Battle of Shrewsbury, Siege of Orleans, Perkin Warbeck, Act of Supremacy, Six Articles, The Smithfield Fires, Battle of Zutphen, Insurrection of Essex, Hampton Court Conference, The Polley of "Thorough," Root and Branch Bill, Instrument of Government, The Trial of the Seven Bishops Battle of the Boyne, National Debt, The Rising of 1715, South Sea Bubble, Seven Years' War, Trial of Warren Hastings, Peninsular War, Siege of Lucknow, First Home Rule Bill.

10.

10.

10.

#### SECTION III.

 11. Describe in detail any two routes from London to Japan, mentioning the principal places passed on the way.

VALUE.

- 10. 12. Draw a map of Africa showing the possessions of the principal European Powers.
- Describe from source to mouth the course of any *four* of the navigable rivers of Great Britain.
- 14. Say where ten of the following places are situated, and mention anything for which each of the ten is remarkable :--Cintra, Dongola, Klondyke, Nice, Formosa, Harrismith, Ferrara, Leyden. New Orleans, Missolonghi, Gothenburg, Ajaccio, Staffa, Poitiers, Ratisbon, Edgehill.

#### ENGLISH.

#### LOWER GRADE.

#### Thursday, 12th June.-10.45 A.M.

### Passage for Dictation.

The engagement commenced at three in the afternoon by a furious cannonade, under cover of which a battalion of the Portuguese army attacked the redoubt. They were received with the most determined resistance, but succeeded in gaining possession of the heights behind, and their general, believing that they were to be reinforced by masses of infantry, essayed one of those daring and skilful manceures which characterized his tactics. All who heard him issue orders took confidence from his quick and decisive intellect; all who saw him caught mettle from his extraordinary composure and unparalleled audacity.

### ENGLISH.

### HIGHER GRADE AND FIRST PAPER FOR HONOURS.

### Thursday, 12th June.-10 A.M. to 1 P.M.

- Every Candidate should answer mine questions (AND NOT MORE THAN NINE). Every Candidate must take Questions 1 and 2, and three other questions in Section I. Higher Grade Candidates should take, also, two questions in Section II., and two in Section III.
- Honours Candidates are not required to answer questions from Sections II. and III., but may do so. The full number of marks ean be obtained in Section I.

#### SECTION I.

1. Write an essay, of about two pages, on one of the following subjects :---

- (a.) The Growth of the British Empire.
- (b.) Gambling.
- (c.) The Inventions of the Future.
- 2. Paraphrase the following passage, so as to bring out its full meaning :---

What, am I poor of late ? 'Tis certain, greatness, once fallen out with fortune, Must fall out with men too : what the declined is He shall as soon read in the eyes of others As feel in his own fall : for men, like butterflies, Show not their mealy wings but to the summer ; And not a man, for being simply man, Hath any honour ; but honour for those honours That are without him, as place, riches, and favour, Prizes of accident as oft as merit: Which, when they fall, as being slippery standers, The love that leaned on them as slippery too, Do one pluck down another, and together Die in the fall. But 'tis not so with me : Fortune and I are friends : I do enjoy At ample point all that I did possess, Save these men's looks.

10. 3.

3. "Metaphor lies hid in all language." Illustrate this statement from the above passage.

- 4. Take each of the following subjects, and describe any passage in prose or verse which treats of it, giving any quotations you can :--- a sea fight, music, the love of fame, the rose, a dream.
- Point out the faults in the following sentences. Say why you consider them faults, and re-write each sentence in an improved form :--

(a.) You and I are both agreed upon these sort of questions.

- (b.) Few of his friends except myself felt aggravated by his absence.
- (c.) I never remember to have stated my opinion verbally, though I have often expressed it in writing.
- (d.) Entering the drawing-room the conviction came to him that he was in the dwelling of an individual of refined taste.
- (e.) Nature has denied to us the power of closing our ears which she gave us in respect of our eyes.

15.

10

10.

414 Value.

### VALUE.

10.

#### He is most loved that hath most goods.

6. Parse the words italicised in the following :-

### Make a general analysis of the following sentence :---

- When applied to the novelist himself, the tone of criticism to which we allude will, when justly examined, be found to rest chiefly on that depreciating spirit which would undermine the fair fame of an accomplished writer by showing that he has not achieved what he did not attempt.
- Say what you know of the derivation and history of five of the following words --bedlam, dainty, handiwork, envy, feat, nickname, buxom, whole, conceited, animosity, minster, ajar, nostril, weird, sovereign, children.
  - Give a brief account of *four* of the following works :---Marmion, The Lady of Shalott, The Rubaiyat of Omar Khayyam, The Shepherd's Calendar, The Dunciad, Christabel, Adonais, Lycidas, Utopia, The Eve of St, Agnes, The Ballad of Sir Patrick Spens.
- Give some account of any one of the principal characters in Shakespeare's tragedies, describing exactly the part that he or she plays in the plot of the piece.

#### SECTION II.

- Write a short account of any one of the following reigns or ministries, with special regard to (a) domestic changes, (b) wars :—Alfred the Great, Henry III., Edward III., Henry VIII., James I., Charles II., Walpole, George III., Palmerston.
- 11. Give some account of any four of the following, so as to show their significance and importance in British history:--Cæsar's Invasion of Britain, Celtic Christianity, Danegeld, Domesday Book, The Maid of Norway, The White Ship, The Crusades, Edward I.'s Invasion of Wales, The First English Parliament, The Poll-Tax, Battle of Shrewsbury, Siege of Orleans, Perkin Warbeck, Act of Supremacy, Six Articles, The Smithfield Fires, Battle of Zutphen, Insurrection of Essex, Ilampton Court Conference, The Polley of "Thorough," Koot and Branch Bill, Instrument of Government, The Trial of the Seven Bishops, Battle of the Boyne, National Debt, The Kising of 1715, South Sea Bubble, Seven Years' War, Trial of Warren Hastings, Peninsular War, Siege of Lucknow, First Home Rule Bill.

#### SECTION III.

- 12. Describe in detail any two routes from London to Japan, mentioning the principal places passed on the way.
- 13. Draw a map of Africa showing the possessions of the principal European Powers.

10.

10.

10

10.

10.

VALUE

416

10

10.

14. Describe from source to mouth the course of any *four* of the navigable rivers of Great Britain.

15. Say where ten of the following places are situated, and mention anything for which each of the ten is remarkable :--Cintra, Dongola, Klondyke, Nice, Formosa, Harrismith, Ferrara, Leyden, New Orleans, Missolonghi, Gothenburg, Ajaccio, Staffa, Poitiers, Ratisbon, Edgehill.

### ENGLISH.

### HONOURS .- SECOND PAPER.

### Wednesday, 18th June .--- 10 A.M. to 1 P.M.

About SIX questions should be answered. At least FOUR of these must be taken from Section I.

### SECTION I.

16.	1. Illustrate from Chaucer's work his minute observation of personal appearance and character.
16.	<ol> <li>Compare Malory's Morte D'Arthur and Tennyson's Idylls of the King, showing how each reflects the characteristics of the age in which it was written.</li> </ol>
16.	3. What part was taken in the Revival of Learning by Sir Thomas More, Erasmus, John Colet, and Bishop Fisher ?
16.	<ol> <li>Explain the metrical construction of the Sonnet, and illustrate your answer by examining any well-known example of that form of verse.</li> </ol>
16	5. "In narration he (Shakespeare) affects a disproportionate pomp of diction, and a wearisome train of circumlocution, and tells the incident imperfectly in many words, which might have been more plainly delivered in few." Discuss this criticism.
16	<ol> <li>Briefly describe one example of each of the following types of character as they are portrayed by Shakespeare:—The man of action; The professional fool; The affected courtier.</li> </ol>
16.	<ol> <li>Compare the prose writing of any one of these three authors— Bacon, Sir Thomas Browne, Milton, with that of one of these three— Bunyan, Swift, Defoe.</li> </ol>
16.	8. Give some account of the rise of the periodical Essay in the Fighteenth Century

V	ALUE
	16

16

16.

 What do you understand by the Classical style in English poetry ? Give examples.

10. Compare any two lyrics of the Nineteenth Century with any two of the Sixteenth.

11. Write short descriptive notes on six of the following :—The Man of Lave's Tale, The Vision of William Concerning Piers the Ploughman, Tyndale's New Testament, The Dance of the Seven Deadly Sins, The History of the World, Mother Hubbard's Tale, The Anatomy of Melancholy, MacFlecknee, The Rape of the Lack, The Vanily Human Wishes, She Stoops to Conquer, Humphry Ulinber, Michael, Ode to Autumn, Redgauntlet, A Dream of Fair Women, Esmond, David Copperfield.

16.

12. Give an account of any two English poems which have the form of a dramatic monologue.

### SECTION II.

### Optional Questions.

13. Translate into modern English :---

pā hie on Dastseaxe comon tō hiera geweore ond to hiera sejnum, Dā gegaderade sio lāt et of Dastengjum ond of Norðhymbram micelne here onforan winter, ond befaeston hira wif ond hira sejnu ond hira feoh on Bastenglum, ond föron änstreces daeges ond nihtes, þæt hie gedydon on änre westre eoastre on Wirhealum, séo is Lögaceaster gehäten. Þá ne mehte séo fird hie nå hindan offaran, äer hie wäeron inne on þæm geweore; besäeton þéah þaet geweore útan sume twögen dagas, ond genämon eðapes eall þaet þaer bútan waes, ond þä menn olslögon þe hie foran forriðan mehton bútan geweore, ond þaet corn eall forbaerndon, ond mid hira horsum fretton on äelere efenelvö. Ond þaet waes ymb tweift mönað þaes þe hie ár hider oler sáe cömon.

- Parse fully all the strong verbs in the above passage, giving the principal parts in each case.
- How did the Scandinavian Invasions affect the History of the English Language?
- 16. Distinguish between a dialect and a language. What is the historical relation between Lowland Scots and Standard English ?

5598.

EЕ

16.

417

### LATIN.

### LOWER GRADE.

### Monday, 16th June.-10 A.M. to 12.30 P.M

#### Candidates should in all cases attempt Question 1.

### 1. For Prose Composition :---

When Cosimo succeeded his father, he was forty years of age, and being already a man of great authority and fortune on his own account, found his way clear before him. He had largely increased his paternal inheritance by commerce, and he used his means so generously that there was hardly any man of weight in Florence who had not sought and received help from him in moments of need. Thus every day sus the increase of his influence, which was employed by him to destroy the last remains of the power of the Albizzi and their friends. These, goaded to desperation, rose in rebellion, and drove him into exile, not daring to do worse.

#### 2. Translate :---

(a) Sed nostri milites dato siguo cum infestis pilis procucurrissent atque animadvertissent non concurri a Pompeianis, usu periti ac superioribus pugnis exercitati, sua sponte cursum represserunt et ad medium fere spatium constiterunt, ne consumptis viribus adproprinquarent, parvoque intermisso temporis spatio ac rursus renovato cursu pila miserunt celeriterque, ut erat pracceptum a Caesare, gladios strinxerunt. neque vero Pompeiani huic rei defuerunt, nam et tela missa exceperunt et impstum legionum tulerunt et ordines conservarunt, pilisque missis ad gladios redierunt. codem tempore equites ab sinistro Pompei cornu, ut erat imperatum, nniversi procuettrerunt omnisque multitudo sagittariorum se profudit, quorum impetum equitatus noster non tulit, sed paulatim loco motus cessit, equitesque Pompei hoc acrius instare et se turmatim explicare aciemque nostram a latere aperto circumire coeperunt.

[The Countryman who stays at Home.]

(b) Felix, qui propriis aevum transegit in arvis, ipsa domus puerum quem videt, ipsa senem :

non freta mercator tremuit, non classica miles,

non rauci lites pertulit ille fori. indocilis rerum, vicinae nescius urbis

adspectu fruitur liberiore poli.

frugibus alternis, non consule computat annum :

autumnum pomis, ver sibi flore notat.

erret et extremos alter scrutetur Hiberos :

plus habet hic vitae, plus habet ille viae.

(a) Give (1) the meaning, (2) the gender, (3) the genitive singular, (4) the genitive plural of the following words: senatus-consultum, respublica, nax, vox, sacerdos, custos, lis, urbs, opus, corpus.

(b) What are the adverbs formed from the adjectives audax, gravis, bonus, malus, nequam ? Give the comparative and superlative of those adverbs.

20

15.

VALUE.

25.

VALUE.

40.

(c) Write down the principal parts of velo, pango, condo, redeo, reddo, nolo, spondeo, audeo, prosum, ordior.

(d) Write short Latin sentences, translating them, to illustrate the constructions usual with each of the following verbs *i-circumda, obliviscor, suudea, invitea, utor.* 

(e) Mark the quantity of every syllable of the following words: --mendicus, impedimentum, homines, mercedis, telluris, pecudis, pano, rapio, divido, patior.

#### 4 Translate into Latin :—

(a) When I have completed this work at home, I will go with you to the country.

(b) The wiser a man becomes, the more he desires wisdom.

(c) He threatened to kill me if I did not obey him.

(d) The consul sent his son to Rome to tell the Senate that the enemy had asked for peace.

 $(\boldsymbol{\varepsilon})$  The king asked the young man how old he was, and how long he had lived at Athens.

5. Give a short account of the career of any one of the following :-Scipio Africanus major, Sertorius, C. Gracchus, C. Marius, Agricola.

#### LATIN.

#### HIGHER GRADE.

#### Monday, 16th June .-- 10 A.M. to 1 P.M.

Candidates will not be allowed to pass unless they reach the necessary standard both in Prose Composition and in Translation.

#### 1. For Prose Composition :---

Curious to see who it was, the soldier dragged him out, and recognised the face of Claudius, the late Emperory uncle. He showed him to his contrades who were near, and, possibly in jest, they saluted him as their new prince, raised him at once upon their shoulders, and earried him in triumph to the camp. The eitzens who saw him carried by, marked his pitcous look of terror, and thought the poor wretch was carried to his doom. The Senate heard that he was in the camp, but only sent to bid him take his place among them, and heard seemingly without concern that he was there detained by force. But the next day found them in a different mood. The populace had been clamouring to have a monarch, the practorians had sworn obedience to their new-found emperor, the city guards had slipped away, and the Senate, divided and disheartened, had no course left them but submission. 5598. Et 2

VALUE. 2. Translate into English :---

(a) Denique ille ipse M. Marcellus, cuius in Sicilia virtutem hostes, misericordiam victi, fidem ceteri Siculi perspexer-unt, non solum sociis in eo bello consuluit, verum etiam superatis hostibus temperavit. urbem pulcherrimam, Syracusas, quae cum manu munitissima essct tum loci natura terra ac mari clauderetur, cum vi consilioque cepisset, non solum incolumem passus est esse, sed ita reliquit ornatam ut esset idem monumentum victoriae, mansuetudinis, continentiae, cum homines viderent et quid expugnasset et quibus pepercisset et quae reliquisset. tantum ille honorem habendum Siciliae putavit ut ne hostium quidem urbem ex sociorum insula tollendam arbitraretur. itaque ad omnes res Sicilia provincia semper usi sumus ut, quidquid ex sese posset efferre, id non apud eos nasci, sed domi nostrae conditum iam putaremus. quando illa frumentum quod deberet non ad diem dedit ? quando id quod opus esse putaret non ultro pollicita est ? quando id quod imperaretur recusavit ? itaque ille M. Cato sapiens cellam penariam reipublicae nostrae, nutricem plebis Romanae Siciliam nominabat.

(b) Ac velut effusa si quando grandinc nimbi praecipitant, omnis campis diffugit arator omnis et agricola et tuta latet arce viator, aut amnis ripis aut alti fornice saxi, dum pluit in terris, ut possint sole reducto exercere diem : sic obrutus undique telis Aeneas nubem belli, dum detonet omnis, sustinet, et Lausum increpitat Lausoque minatur : 'quo moriture ruis maioraque viribus audes ? fallit te incautum pietas tua.' nec minus ille exsultat demens ; saevae iamque altius irae Dardanio surgunt ductori, extremaque Lauso Parcae fila legunt : validum namque exigit ensem per medium Aeneas iuvenem totumque recondit. transiit et parmam mucro, levia arma minacis, et tunicam, molli mater quam neverat auro, implevitque sinum sanguis ; tum vita per auras concessit maesta ad Manes corpusque reliquit. at vero ut voltum vidit morientis et ora, ora modis Anchisiades pallentia miris, ingemuit miserans graviter dextramque tetendit, et mentem patriae subiit pietatis imago.

3. (a) Explain the exact force of dum with different tenses of the indicative and with the subjunctive.

Illustrate your explanation by short Latin sentences.

(b) Distinguish between omnes and cuncti; unus and singuli; nemo non and non nemo; aliquis and quidam.

(c) Translate the following sentences, and account for the case of the nouns or pronouns printed in *ilalics*, and for the *mood* of the verbs in *ilalics*.

20.

VALUE.

35.

- (i) ego animi pendeo, quid illud sit negotii.(ii) vestra interest ne imperatorem pessimi faciant.
- (iii) quid mihi Celsus agit ?
- (iv) tu velim nos absentes defendas.

(d) Write short Latin sentences to show the constructions usually found with the following verbs: --prenited, permittere, meminisse, docere, indugere.

4. Scan the following lines, and give the names of the metres in which they are written :---

(a.) hoc anima atque animus vincti sunt foedere semper.

- (b.) hoe duce Romanum est solis utrumque latus.
- (c.) portus Alexandrea supplex et vacuam patefecit aulam.

5. Translate into Latin :---

- (a.) Whether we stay or go back, we shall have to resist an attack.
- (b.) If I were in your place, I should not hesitate to say what I thought.
- (c.) About three months ago my friends asked me if I thought this thing would happen.
- (d.) The general ordered his men to spare any of the townspeople who asked for quarter.

Answer any one of the following questions :---

- (a.) Give a short account of the career of any one of the following :— Tiberius Gracchus; Jugurtha; Cato Uticensis; Germanicus.
- (b.) Describe the judicial reforms of Sulla; and give a summary of the history of the equiles during the last eighty years of the Republic.
- (c.) Tell what you know of the following places:—Luca, Munda, Actium; Baiae, Venusia, Tusculum; Vetabrum, Vicus Tuscus, Mons Sacer.

### LATIN.

### HONOURS .- FIRST PAPER.

### Monday, 16th June .- 10 A.M to 1 P.M.

#### 1. For Prose Composition :-

He was not a man who held it good public economy to pull down on the mere chance of building better. Mr. Lincoln's faith in God was qualified by a very well founded distrust of the wisdom of man. Perhaps it was his want of self-confidence that more than anything else won him the unlimited confidence of the people, for they felt that there would be no need of retreat from any position he had deliberately taken. The cautious, but steady, advance of his policy during the war was like that of a Roman army. He left behind him a firm road on which public confidence could follow; he took America with him where he went; what he gained he occupied, and his advanced posts became colonies. The very homeliness of his genius was its distinction. His kingship was conspicuous by its workday homespun. Never was ruler so absolute as he, nor so little conscious of it; for he was the incarnate common-sense of the people. He seems to have had but one rule of conduct, always that of practical and successful politics, to let himself be guided by events, when they were sure to bring him out where he wished to go, though by what seemed to unpractical minds, which let go the possible to grasp the desirable, a longer road.

#### 2. For Hexameters :-

They sought the bark ; a wary pilot first Well in his scacraft skilled, each landmark taught. And now the chief delayed not, for their vessel Was on the waters ; by the sea-girt cliffs She floated, while the ready warriors plied Near the tide-beaten sands the well-poised oar.-Deep in her hold all the bright gear of war, Armour and arms were stowed, as fitted best The willing purpose of their way .--- And now By favouring winds propelled, e'en as a bird She cut the waves that foamed around her prow. Thus ere the second day had closed upon them— So swift they swept the deep—the eager host Saw the bright cliffs and lengthened headlands rise, And knew in that steep shore their destined port.

For Elegaics -

"What one are thou, thus in torne weede yelad ?"

"Vertue, in price whom ancient sages had." "This bridle what ?" "Mind's rages to restrain."

- "Why bear you tooles?" "I love to take great paine." "Why wings?" "I teach above the stars to fly." "Why treade you death?" "I onely cannot die."

OR

Write a Latin Speech for, or against, Conscription; or a Dialogue in which the advantages and disadvantages of compulsory military service are discussed.

70.

30

VALUE

#### HONOURS .- SECOND PAPER.

#### Wednesday, 18th June.-2 to 5 P.M.

### 1. Translate into English :---

Legem etiam iudiciariam tulit, homo castus atque integer. iudiciorum et iuris auctor. in quo nos fefellit. antesignanos et manipulares et Alaudas iudices se constituisse dicebat. at ille hainpuates eo Alandas nances se construinse drebat, at me legit aleatores, legit exultes, legit Graceos...– o concessum indicum pracelarum ! o dignitatem consilii admirandam ! avet aninus apud consilium illud pro reo dicere—Cydam Cretensem, portentum insulae, houmem audacissimum et perditissimuu... sed fac non esse : num Latine scit ? num ex iudicum genere et forma ? num, quod maximum est, leges nostras moresve novit ? num denique homines ? est enim Creta vobis notior quam Roma Cydac. dilectus autem et notatio iudicum etiam in Roma Ofdae. Unecus aucon es notation function e com nostris civibus haberi solet. Gortynium vero indicem quis novit aut quis nosse potuit l'anan Lysiadem Atheniensem plerique novimus. est enim Phaedri, philosophi nobilis, filius : homo practeres festivus, ut ei cum Curio consessore codemque collusore facillime possit convenire. quaero igitur, si Lysiades citatus iudex non responderit excuseturque Areopagites esse nec debere eodem tempore Romae et Athenis res iudicare, accipietne excusationem is qui quaestioni praeerit, Graeculi iudicis, modo palliati, modo togati ? an Atheniensium antiquissimas leges negleget ?

(b.) Saepe mihi dubiam traxit sententia mentem, curarent superi terras, an nullus inesset rector, et incerto fluerent mortalia casu. nam cum dispositi quaesissem foedera mundi, praescriptosque mari fines, annique meatus, et lucis noctisque vices, tunc omnia rebar consilio firmata dei, qui lege moveri sidera, qui fruges diverso tempore nasci, qui variam Phoeben alieno iusserit igni compleri solemque suo, porrexerit undis litora, tellurem medio libraverit axe. sed cum res hominum tanta caligine volvi adspicerem, laetosque diu florere nocentes vexarique pios, rursus labefacta cadebat religio, causaeque viam non sponte sequebar alterius, vacuo quae currere semina motu affirmat, magnumque novas per inane figuras fortuna, non arte, regi ; quae numina sensu ambiguo vel nulla putat vel nescia nostri. abstulit hunc tandem Rufini poena tumultum absolvitque deos. iam non ad culmina rerum iniustos crevisse queror : tolluntur in altum ut lapsu graviore ruant.

18.

VALUE.

VALUE. (c.)

424

Vides quam honesti, quam severi dies, quos iucundissimae remissiones sequebantur. adhibebamur cottidie cenae : erat modica, si principem cogitares. interdum acroamata audiebamus, interdum iucundissimis sermonibus nox ducebatur. summo die abeuntibus nobis (tam diligens in Caesare humanitas) xenia sunt missa. sed mihi ut gravitas cognitionum, consilii honor, suavitas simplicitasque convictus, ita locus ipse periucundus fuit. villa pulcherrima cingitur viridissimis agris, imminet litori, cuius in sinu fit cum maxime portus. huius sinistrum brachium firmissimo opere munitum est, dextrum elaboratur, in ore portus insula adsurgit, quae inlatum vento mare obiacens frangat tutumque ab utroque latere decursum navibus praestet, adsurgit autem arte visenda : ingentia saxa latissima navis provehit : haec alia super alia deiecta ipso pondere manent ac sensim quodam velut aggere construuntur. eminet iam et apparet saxeum dorsum impactosque fluctus in immensum elidit et tollit, vastus illic fragor canumque circa mare. saxis deinde pilae adicientur, quae procedente tempore enatam insulam imitentur. habcbit hic portus et iam habet nomen auctoris eritque vel maxime salutaris : nam per longissimum spatium litus inportuosum hoe receptaculo utetur.

- 2. Translate the following, and write short notes on any peculiarities of construction that you observe :---
  - (a) populabundus agros ad oppidum venit.
  - (b) ne hostes quidem sepultura invident.
  - (c) neque Herculi quisquam decumam vovit umquam, si sapiens factus esset.
    - d) pars ingenti subiere feretro,
    - triste ministerium.
  - (e) at etiam litteras, quas me sibi misisse diceret, recitavit.
  - (f) forsitan Ausonias ibis frenare cohortes.
  - (g) unde plures erant, omnes fuere.
  - (h) macte, inquit, virtute simulque his versibus esto.
  - (i) saepe malum hoc nobis, si mens non laeva fuisset, de caelo tactas memini praedicere quercus.

3. Answer any two of the following questions :---

- (a) During what period of Roman History was the influence of the Senate greatest ? Account for its prominence at that time.
- (b) What were the political aims and achievements of C. Gracchus and C. Marius ? Consider how far they may be held to be the forerunners of Julius Caesar.
- (c) To what extent were there Political Parties, with principles or "platforms," in Cicero's time? Define the interests and aims of such Parties as can be distinguished.
- (d) In what ways did Octavian differ from Julius Caesar ? Account for the success of the former, referring briefly to events which favoured him, to his own character, and to the ability of his associates.

18

24

VALUE.

(e) Sketch the growth of Roman Oratory, mentioning (with approximate dates) a few of the most distinguished orators before and after the time of Cicero.

- (f) Compare the poetry of Cicero's contemporaries—especially Lucretius and Catullus—with that of the Augustan age. What are the qualities of each, and which seems to you to rise to the higher level ?
- (g) Write a short account of the literary career of Virgil or Horace, showing the ideas or aspirations which guided the poet from time to time, and the circumstances which favoured the development of his genius.

#### GREEK.

#### LOWER GRADE.

# Friday, 13th June.-2 to 4.30 P.M.

### I. Translate :---

1. Παθισιαθ:— 'Ο δὲ Πολύφρων ῆρξε μὲν ἐνιαυτών, ἀπειργάσατο δὲ τὴν βασιλείαν τυραντίδι ὑμοίαν. ὅν τε γὰρ Φαρσάλω τών πολιτῶν τυὰς τοὺς κρατό στους ἀπέκτευσι, ἐκ τε Λαρίσης πολλοὺς ἀριγάδας ἐποίησε. ταῦτα δὲ ποιῶν καὶ στος ἀποθηήσκει ὑν ᾿λλξέῶνρου, ὡς τιμομοῦντος τη Πολυδόρω καὶ τὴν τυραυτίδα καταλύοντος. ἐπεἰ ὅ αὐτὸς παρίλαβε τὴν ἀρχήν, χαλεπός μὲν Θετταλοίς βασιλιός ἐγίνετοι, χαλαπός δὲ Θηβαίος καὶ Αλβυαίος πολίμιος, ἀδικος δὲ ληστής καὶ κατὰ τῆν καὶ κατὰ θάλατται. τοιοῦτος ὅ ὑν καὶ αἰτός aὐ ἀποθήσκεις ἰργω μῶν ὑπό τῶν τῆς γυναικός ἀδελφῶν, βουλῆ δὲ ὑπ' αὐτῆς ἐκείνης. τοἱς τε γὰρ ἀδελφῶς ἐξήγειλα ὅπι ὁ Λλέξιαῦρος ἐπιβοιλικόι αὐτοῦς καὶ ἐκριψε ὑπό τῶν τῆνς γυναικός ἀδελφῶν, βουλῆ δὲ ὑπ' αὐτῆς ἐκείνης. τοἱς τε γὰρ ἀδελφῶς ἐξήγειλα ὅπι ὁ Λλέξιαῦρος ἐπιβοιλικόι αὐτοῦς καὶ ἐκριψεν ἀποτοὶς ἐνδαν ὅντας ὅλην τὴν ἡμίραν, καὶ ἐκριῶτα μὐ ὅλλέξωδρον και καθείδοντα τὸ ξέφος αἰτοῦ ἐξήνεγκει, ὡς δ΄ ἤσθετο ἀκουῦντας εἰ ciτέναι ἐτὶ τον ᾿Αλέξαυδρον ἐισὴλδοι, ἐπωσιάσασα τὴν θύραν εἰχοτο τοῦ ῥοπτρου(), ἑως ἀπέθανεν à avnp.

#### (1) βόπτρον, "knocker" (of the door).

#### II. Translate into Greek :---

- (1) He thought that he himself was the happiest of men, not knowing what had happened.
- (2) For three days and three nights they did not cease (παύομαι) from fighting against larger numbers.
- We fear that the enemy may suddenly (¿ξαίφνης) appear (3) and cross the river.
- (4) You ought not to have persuaded us to make such a peace.
  - (5) My friend has gone to his brother to tell him the state of affairs.

### III. (a) Give-

gen. sing. of πλοῦς, ἔως, κέρας, ἀστήρ, Σοφοκλῆς, Ἐρμῆς. acc. plur. of υίος, πουητής, ὀστοῦν, κάλλος, στάσις, βασιλεύς. dat. sing. fem. of πρᾶος, χρυσοῦς, μέλας, πᾶς, εἶς, ὅδε.

Compare ταχύς, έχθρός, εὐγενής, εὖ, ἡδέως, σοφῶς. Parse τόλμης, αἰδοῖ, γόνασι, πολῖτα, σφῷν, ὅτου.

(b) Parse fully, giving the principal parts of each verb-

ήσθετο, ἀνεωγμέναι, ἀνήλωκα, μέμνησο, ἔδεται, ἐκαλέσω, ἐπελάθου, ἐφιέντων, πευσόμενον.

#### Give--

2nd sing. 2nd aor. imperat. act. of  $\beta \acute{a} \lambda \lambda \omega$ ,  $\check{\epsilon} \chi \omega$ ,  $\lambda a \mu \beta \acute{a} \nu \omega$ ,  $\beta a \acute{b} \nu \omega$ .

Ist sing, fut. ind. of ἐλαύνω, αἰσθάνομαι, γιγνώσκω, πάσχω. aor. inf. pass. of ἀγγέλλω, πλέκω, ἴστημι, τιμῶ.

- (c) Translate, with notes on the syntax :---
  - (1) οὐ διὰ μακροῦ ήξουσιν οἱ ξένοι.
  - (2) πόσου έθελεις διδάσκειν;
  - (3) ταῦτ' ἐπὶ τῶν πατέρων ἐγένετο.
  - (4) ούκ οίδα ό τι χρήσωμαι έμαυτώ.
  - (5) ἐπιχειρητέον ἐστὶ τῷ ἐργω.
- (d) Give examples of the uses of  $\delta \iota a$  and  $\pi a \rho a$ , of  $\mu \eta$  with the subjunctive and the infinit, and of  $a\nu$  with the optative.

### GREEK.

### HIGHER GRADE.

### Friday, 13th June.-2 to 5 P.M

(Candidates will not be allowed to pass unless they reach the necessary-Standard both in Grammar and Translation.)

### I. Translate :--

ιοταίδα δ) τούτων αξ την άρτην τές ούκ δυ άγασθείη; οἱ καὶ πολύ πλέισκας όρῶντες ποῦς πολιμίους, καὶ ὑ Κορύθω δυστιχήματος γεγειημέσιου τοῦς ἱππεθσιν, οὐδὲν πούτων ὑπελογίσαντο, οὐδ' ότι καὶ Θηβαίοις καὶ Θεταλοίς τοῦς κρατίστοις ἱππεθσιν είναι δοκοῦτιν ὑμελλον μάχισθαι; λαλ ἀ αλχυνρόμενοι εἰ παρόττες μηθέν ψόρλλησοιεν ὑμελλον μάχισθαι; πατρώα ὑόζων, καὶ μαχύμουι οἰτιοι μέν ἐψόνοιτο τοὺς συμμάχους, ὡς εἰδον πάχιστα τοὺς πολιμίους, συνέρραξαν, ἡῶντες ἀνασισασθαι τὴν πατρώα ὑόζων, καὶ μαχύμουι οἰτιοι μέν ἐψόνοιτο τοὺς πομμάχους, ὡς εἶδον πάχιστα τοὺς πολιμίους, συνέρραξαν, ἡῶντες ἀνασισασθαι τὴν σόξου ὅτι τοιοίτους, καὶ τοὺς μοὺ φιλιόνος νεκρούς ἐὐ προίρκατις τῶν δὲ πολημίων ὑιως ὑποσπόνδους ἀπέθοσαν. τῷ δ' ἀ Ἐπαμειωνάρὰ ἰνθυμουμέως ὅτι ὅλ/μων μίως ὑποσπόνδους ἀπέδοσαν. τῷ δ' ἀι Ἐπαμειωνάρὰ ἰνθυμουμέως ὅτι ὅλ/μως ψι ἡμερῶν ἀψάγκη ἑ ἀσιτος ἀπέτια ῶ ἀι ἐξήκειν τῆ στρατία τὸ χρόσον, εἰ δὲ καταλείψοι ἐρήμους οἶς ὅλθε σύμμαχος, ἐκείνοι πολιορκήσουτο ὑπό τῶν ἀνππάλων, οὐκ ἐδόκαι δυνστίνοι ἐλαι ἀξηρίειν τῆ στραιοίς καλψι τὴν τολεντὴν ἡγήρατο ὅσασθαι περωμέως τῇ πατρίδι ἀρχήν Πελοποννήσου καταλετεῶν.

συρράσσω "dash together": ἀναλύεσθαι "resolve" (doubts).

28

426

VALUE.

15.

17.

VALUE. II. Translate one of the following passages :-

Τον δ' άπαμειβύμενος προσέφης, Εύμαιε συβώτα. ά δειλε ξείνων, ή μοι μάλα θυμον όρινας ταῦτα ἕκαστα λέγων, ὅσα δη πάθες ήδ' ὅσ' ἀλήθης. ταιτά εκάστα κεριο, όσα όη αυός ηο σο απροη. άλλα τά γ' οδ κατά κόσμου, όδομοι, οδό με πείσεις είπων άμφ' Όδυσητι τί σε χρή τοιον έώντα μαψιδίως ψεύδεσθαι; έγω δ' εν οίδα και αυτός νύστον έμοιο άνακτος, ό τ' ήχθετο παοι θεοίσι πάγχυ μάλ', ὅττι μιν οὕτι μετὰ Τρώεσσι δάμασσαν ήε φίλων έν χερσίν, επεί πόλεμον τολύπευσε. τῷ κέν εἶ τύμβον μèν ἐποίησαν Παναχαιοί, ἠδέ κε καὶ ῷ παιδὶ μέγα κλέος ἤρατ' ἀπίσοω. αδτάρ έγω παρ' δευσικ ἀπότροπος· οδδε πόλικδε έρχομαι, εὶ μή πού τι περίφρων Πηνελόπεια ἐλθέμεν ὀτρύνησιν, ὅτ' ἀγγελίη ποθὲν ελθη.

(a)

[Electra holds in her hands the urn which is supposed to contain the ashes of Orestes. She addresses Orestes.]

> νῦν μέν γάρ οὐδέν ὄντα βαστάζω χεροίν. δόμων δέ σ', & παι, λαμπρον εξέπεμψ' έγώ. ώς ώφελον πάροιθεν εκλιπείν βίον, πρίν ές ξένην σε γαΐαν ἐκπέμψαι, χεροίν κλέψασα ταΐνδε, κάνασώσασθαι φόνου, όπως θανών έκεισο τη τόθ' ήμέρα, τύμβου πατρώου κοινόν είληχώς μέρος. νῦν δ' ἐκτὸς οἶκων κάπὶ γῆς ἄλλης φυγάς κακώς απώλου, σής κασιγνήτης δίχα. κούτ' ἐν φίλαισι χερσιν ἡ τάλαιν' ἐγὼ λουτροῖς σ' ἐκόσμησ' οὕτε παμφλέκτου πυρός άνειλόμην, ώς εἰκός, ἄθλιον βάρος. οίμοι τάλαινα τῆς ἐμῆς πάλαι τροφῆς ἀιωφελήτου, τὴν ἐγὼ θάμ' ἀμφὶ σοὶ πόιω γλυκεί παρέσχον.

III. Translate into Greek :---

- (1) I bade him throw away whatever in the world he held dearest, that he might escape the jealousy of fortune.
  - (2) If I had thought that you, at your age, would be able to do so much harm to your friends, I would not have released (åøinnu) you.
  - (3) Do not show this letter to anyone, either man or woman, till you hear of our arrival at the place for which we are bound.
  - (4) Would that it were possible to become a skilled speaker without spending (ἀναλίσκω) so much time and giving large sums to a teacher
  - (5) No one can deny that those who take the side of the tyrant deserve to be slain by the whole body of citizens,
  - (6) In the course of this night, or of the following day, we hope either to take the city or perish bravely in the attempt.

30

### Alternative passage for Translation into C.eek.

A story about Plato is worth recording as indicating his character. On one occasion he was lodging (καταλίω) at Olympia with some strangers, who were highly pleased with his manners and conversation. Not a word, however, did he say about the Academy or about Socrates; he merely told them that his name was Plato. Some time later they paid him a visit at Athens, and so friendly was his welcome they pair limit a value at hence, site so the height was the vertices that they were encouraged to say. "Now do let us see your name-sake, the associate of Socrates; take us to the Academy that wo may have the bonour of hearing him discourse to his pupils." With his wonted smile he replied, "I am he." They were annaed to find the great man so simple, and able to win friends by easy human intercourse.

IV. (1) Give perf. infin. of wvovuar pres. infin. of  $\pi \epsilon w \hat{\omega}$ perf. pass. ind. 3rd sing. of anovi(w. fut. part. nom. sing. fem. of συμπνέω. aor. indic. 3rd plur. of µáχoµaı. opt. 1st plur. of κάθημαι. fut. ind. 2nd sing. of διάδω. 2nd aor. ind. act. 2nd sing. of ἐκθρώσκω. 2nd aor. pass. part. dat. sing. masc. of συναλλάσσω. imperf. ind. 3rd plur. of προσιέναι.

(2) Translate with grammatical notes :---

(a) ζηλώ σε τοῦ νοῦ.

- (b) αί νήες αὐτοῖς ἀνδράσιν ἀπώλοντο.
- (c) τὸ σὸν μέρος ἡ πόλις ἐάλω.
- (d) ούδενος ότου ου σοφώτερος ήν.
- (e) ύπο σάλπιγγος επορεύοντο.
- (3) Translate with notes on the syntax :--
  - (a) ειθ' ευρομέν σ', "Αδμητε, μη λυπούμενον.
     (b) τάλλα σιωπώ πόλλ' άν έχων εἰπεῖν.

  - (b) Γάλλα σώσω στο τη μή σθένω πεπαύσομαι.
     (c) ούκοῦν ὅταν ὅὴ μή σθένω πεπαύσομαι.
     (d) τὰ τοιαῦτα οὕτ' ἐγέγνετο οὕτ' ἀν ἐγένετο.
     (e) τὰ τοιαῦτα οῦτ' ἐγέγνετο μήτε γένοιτο.
- (4) Distinguish πείθειν, πείσαι: ἀποθιγίσκειν, ἀποθανείν: ἀνοβαίνειν, αναβιβάζειν: συμβουλεύειν, συμβουλεύεσθαι: εκάτερος, εκαστος.

Explain the force of the prepositions in the following compounds, giving the English of each word :-

μεταπέμπομαι, μεταμέλομαι, μεταδίδωμι: ἀποδίδωμι, ἀπαγορεύω, άπεργάζεσθαι: διαγιγνώσκω, διαμάχομαι, διαλέγομαι: άναχωρώ, άναγιγνώσκω, άνάγω: περιαιρώ, περιγίγνομαι, περιορώ.

5.

428

VALUE.

30.

5.

.5.

#### GREEK.

### HONOURS.-FIRST PAPER. Friday, 13th June. - 2 to 5 P.M.

### I. Translate :--

(2)

(1) Τον δ' άρ' υπόδρα ίδων προςέφη πολύμητις 'Οδυσσεύς' 'Ατρείδη, ποιόν σε έπος φύγεν έρκος δδόντων' οὐλόμεν', αἴθ' ὤφελλες ἀεικελίου στρατοῦ ἄλλου σημαίνειν, μηδ' άμμιν άνασσέμεν οίσιν άρα Ζεύς έκ νεότητος έδωκε και ές γήρας τολυπεύειν άργαλέους πολέμους, ὄφρα φθιόμεσθα ἕκαστος, ούτω δὴ μέμονας Τρώων πόλιν εὐρυάγυιαν καλλείψειν, ἦς εἶνεκ' ὀιζύομεν κακὰ πολλά ; σίγα, μή τίς τ' ἄλλος 'Αχαιών τοῦτον ἀκούση σίγα, μη τις ταλος Αχαιών το το του ακουο μ μόθοι, διο τό και διήρη σε δολ στόμα πάμπαν άγοιτο, ος τις επίσταιτο ήσι φρισιν άρτια βόζειν σκηπτοξικός τ΄ είη, καί οι πειθοίατο λαολ τοσσοίδ' όσσοισιν σύ μετ' 'Αργείοισιν ανώσσεις' νῦν δέ σευ ὦνοσάμην πάγχυ φρένας, οἶον ἔειπες" δς κέλεαι πολέμοιο συνεσταότος καὶ ἀῦτῆς νηας έῦσσέλμους ἅλαδ' ἐλκέμεν, ὄφρ' ἔτι μᾶλλον Τρωσί μέν εύκτα γένηται επικρατέουσι περ εμπης, ήμιν δ' αἰπὺς ὅλεθρος ἐπιβρέπη. Explain the mood ¿πίσταιτο.

### KAPION, ΔΙΚΑΙΟΣ.

KA. έα, τίς έσθ' ὁ προσιών ούτοσί;

Δ1. ανήρ πρότερον μεν αθλιος, νῦν δ' εὐτυχτίς. ΚΑ. δήλον ότι των χρηστών τις, ώς έοικας, εί.

 ΚΑ. σήνων στι των χρήστων τας, ων ευπας, ετ.
 ΔΙ. μάλιστ'. ΚΑ. έπειτα τοῦ δέει; ΔΙ. πρὸς τὸν θεὸν
 ῆκων μεγάλων γάρ μοι 'στιν ἀγαθῶν aïτιos.
 ἐγὼ γὰρ ἰκανὴν οἑσίαν παρὰ τοῦ πατρὸς λαβών ἐπήρκουν τοῖς δεομένοις τῶν φίλων,

είναι νομίζων χρήσιμου πρός του φόρως είναι νομίζων χρήσιμον πρός τον βίου. ΚΑ. η πού σε ταχέως ἐπέλιπεν τὰ χρήματα. ΔΙ. κομιδή μὲν οὖν. κὰγὼ μὲν ῷμην οὒς τέως εἰνηργέτησα δεομένους ἕξευ φίλους όντως βεβαίους, εί δεηθείην πότε οί δ' έξετρέποντο κούκ έδόκουν δρ ιν μ' έτι.

ΚΑ. άλλ' οὐχὶ νῦν. ΔΙ. ἀνθ' ῶν ἐγὼ πρὸς τὸν θεὸν προσευξόμενος ήκω δικαίως ἐνθάδε. ΚΑ. τὸ τριβώνιον δὲ τί δύναται πρὸς τὸν θεόν,

ΚΑ. Το Τρίρωνων σε τι δυνατά προς τον νουν,
 δ φόρι μετά σοῦ το παιδάρων ταγχί, φράσου.
 ΑΙ. και τοῦτ ἀναθήσων ὅρχομαι προς τον θεόν.
 ΚΑ. μῶν σῶν ἐμινθης ὅῆτ ἐν αὐτῷ τι μινγάλα;
 ΔΙ. οὅκ: ἀλλ' ἐνερρίγωσ' ἐτη τριακαίδκα.
 ΚΑ. καὶ τοῦτ ἀναθήσων ἐρος ὅῦν, ΔΙ. νη τον Δία.
 ΚΑ. χαρίατά γ ὅκεις δῶρα τῷ θεῷ φόρων.

#### II. For Greek Proe:s

Then turning towards Philip, who fell on his knees and kissed his father's hand, "If," says he, "I had left you by my death this rich inheritance, to which I have made such large additions, some regard would have been justly due to my memory on that account ; but now when I voluntarily resign to you what I might have still retained, I

VALUE.

20.

20.

VALUE, may well expect the warmest expression of thanks on your part. With these, however, I dispense, and shall consider your concern for the welfare of your subjects, and your love of them, as the best and most acceptable testimony of your gratitude to me. It is in your power, by a wise and virtuous administration, to justify the extraordinary proof which I, this day, give of my paternal affection, and to demonstrate 60. that you are worthy of the confidence which I repose in you. And if the time should ever come when you shall wish to enjoy the tranquility of private life, may you have a son endowed with such qualities that you can resign your sceptre to him with as much satisfaction as I give up mine to you."-ROBERTSON.

### GREEK.

#### HONOURS-SECOND PAPER.

#### Thursday, 19th June .- 2 to 5 P.M.

I. Translate :---

[Lysias charges Eratosthenes with the murder of Polemarchus.]

Δεισταν στην διάρχες διασσταί, Έρατσσθάνην διούν θάτερον αποδείζει, ή δει γιώ, δι άνδρες διασσταί, Έρατσσθάνην διούν θάτερον αποδείζει, ή ώς ολκ άπήγαγαν αίτών, ή ώς δικαίως ποῦτ πραξέρι. οδτος δε όμολόγησεν και μεν δη πολλοί και τών άστών και τών ξύων ήπουτον ιδιοίμενοι τύω γνώμην περί τοίτων έξετε. δυ οι μιν ήμέτεροι σύτες πολίται μαθύντες άπίσσυ ότι ή δίκην δώσουσω δυ δυ έξαμά,πωσω, ή πράξαιτες μεν δυ έφίενται τύραννοι τής πόλεως έσονται, δυστυχήσαντες δε το ίσον ύμιν εφμετικά τομαινοί της πολέως στονταί, ουστυχηταύτες δε το ίστο τημά ξ'ουσι. δοτο δε ξενιό πλημηδοτοι, δισονται πότερου δάδιως τους πράκουτα δικοριόττουσιν δε του πόλεων ή δικαίος. εί γάρ δη αποί οι κακώς πατονότες καθάστες άφισκου, ή που σφάς αίτοις διγήστανται παρείρηνους υπόρ ύμων τημωρουμένους, ούε σδυ δικών εί τους μέστο στρατηγούς οι διέκων ναμμαχούντες, ότε διά χειμώσα οίχ οίοι τ΄ όδασαι έδιοι τούς ές της θαλάτης άνειλέσται, διανότας ζέχριμώσατε, τοιίτους δέ, δι δίδοται μόν διατο μαθί που δύωντοι μέστοματο ποραθίδαι μουσιμονιδιατό τουδιά δι οντες καθ όσον εδύναντο εποίησαν ήττηθηναι ναυμαχούντας, επειδή δε είς την δρχην κατέστησαν, όμολογοῦσιν ἐκόντες πολλοὺς τῶν πολιτῶν ἀκρίτους ἀποκτιννύναι, οὐκ ἀρα χρή ἀὐτοὺς καὶ τοὺς παῖδας ὑφ' ὑμῶν ταῖς ἐσχάταις ζημίαις κολάζεσθαι;

(2)[A legislator must be allowed to frame his ideal, even though it may not all be practicable.]

Έννοείν δε ήμας το τοιόνδ' έστι χρεών έκ παντός τρόπου, ώς τα νύν εἰρημένα πάντα οὐκ ἄν ποτε εἰς τοιούτους καιροὺς ξυμπέσοι, ὥστε ξυμβήναι εμημένα πωτά ούνοι δε ποιε εκτίουστους ποιρούς τομπειου, ωτι εξεμογητικ κατά λόγου ούνοι ξέμπαντα γιούρικαι, έχει δη τά τοιάτα ού κακώς τουα τρόπου εξοημένα, χρή δ' έπαναλαμβάνεια πρός αύτου τά τοιάδια πάλαυ άρα ήμαι δι ουρούςται στο μάζει στός: Έυν τοιότοις τοις λόγοις, ό φίλοι, μηδ' αίτρον δοκείτέ με λεληθέναι, το νύν λεγόμενον, ώς άληθη διαξέρχεταί τινα τρόπον. άλλα γαρ έν έκάστοις των μελλόντων έσεσθαι δικαιότατον τινα τροπου. άλλα γαρ εν εκαστοίε των μελλοντων στοσται οικαιστατου οίμαι τόδε είναι, τον τό παράδειγμα δεκινότπο, οίον όει τό επιχερούμευου γίγνεσθαι, μηθέν άπολείπειν των καλλίστων τε και άληθιστάπων. Δ δέ άδώματόν τι έγιμβαίνει τούτων γέγνεσθαι, τούτο μέν αίτο δικλάνειν καί μή πρώττειν, δα τι δε τούτου τών λοιπών έγγναταί δετι καί έγγνείτατα έψυ τών προσηκόπτων πράτειν, τούτ' αυτό διαμηρωβαίθαι όποις διν γίγνηται. τον νομοθέτην δ' έασαι τέλος έπιθείναι τη βουλήσει, γενομένου δε τούτου, τότ' ήδη κοινή μετ' εκείνου σκοπείν ο τι ξυμφέρει των ειρημένων.

25.

14.

431

VALUE. II. (a) Translate with notes on the syntax :--

- (1) άλλ' όμοσον μή μητρί φίλη τάδε μυθήσασθαι.
  - κύων ὥς, ὄς τ' ἐπὶ νεβρῷ
     βλημένω ἀἰξη.
- ρλημενώ αιζη.
- (3) φεῦ, φεῦ, τὸ μὴ τὰ πράγματ' ἀυθρώποις ἔχειν φωνήν, ἕν' ἦσαν μηδὲν οἱ δεινοὶ λόγοι.
- (4) οὐ μὴ λαλήσεις ἀλλ' ἀκολουθήσεις ἐμοί ἀνύσας τι δευρὶ θᾶττον;
- (5) έγώ, είπερ άλλω τῷ ἀνθρώπω πειθοίμην ἄν, καὶ σοὶ πείθομαι.
- (6) δίδασκέ με ώς μη είδότ' αυτόν μηδέν.
- (7) τίνα οι εσθε όντιν' ου βραχεία προφάσει αποστήσεσθαι;
- (8) φοβείσθε μη δυσκολώτερόν τι νῦν διακείμαι ή ἐν τῷ πρόσθεν βίφ.
- (9) ύμῶς εἰδέναι ἡγοῦμαι τοῦτον οῦτω σκαιὸν εἶναι ὥστε οὐ δύνασθαι μαθεῖν τὰ λεγόμενα.
- (10) καν εί πολλαί είσιν, εν γέ τι είδος ταὐτὸν πασαι έχουσι.
- (b) How are the following particles used :-- η μήν, άλλ' η, μèν οῦν, οὐ μην ἀλλά, οὐ γὰρ ἀλλά, ἀλλὰ γάρ, καὶ γάρ, ἄρα, δῆθεν, δῆτα ἐ

III. Answer any two of the following questions :----

- (1) What are the chief arguments for and against the personality of Homer?
- (2) Who were the Sophists ? What was their relation to Socrates ?
- (3) Give the plot and analyze the structure of any Greek play with which you are familiar, adding the Greek terms for each division of the play.
- (4) What foreign influences affected the early civilisation of Greece?
- (5) Trace the history of the Kingship in Greece and the Archonship at Athens.
- (6) Give a brief account of any three of the following events and of the circumstances which led to them;---the Revolt of Mitylene; the Peace of Nicias; the Peace of Antalcidas; the destruction of Olynthus; the battle of Issus.

### FRENCH.

### LOWER GRADE.

### Friday, 13th June.-10 A.M. to 12.30 P.M.

To secure full marks, the whole of this Paper should be answered.

1 Translate into English :---

(c.) Avant d'aller annoner à sa mère son heureuse matinéc, Pierre rentra un instant dans sa barque pour examiner les réparations qu'il aurait à faire á ses filets. Mais quelle ne fut pas sa surprise lorsqu'en les soulevant il aperqut à ses pieds une bourse qu'i renfermait plus de deux mille francs en or! Sa première pensée fut de croire que c'était un oubli de l'inconnu,

25

25

et, courant sur-le-champ après lui, il l'aperçut qui causait au milieu d'un groupe d'étrangers. "Monsieur," lui dit Pierre, "voiei une bourse que vous avez oubliée tout à l'heure dans ma barque." "C'est une erreur, je n'ai rien oublié dans votre barque : mais cette bourse, fitt-tile à moi, mon ami, je vous dirais de la garder pour prix de votre probité!" "Mais au moins, Monsieur, vous me direz votre nom, afin que je sache quel est mon bienfaiteur." Pour toute réponse, l'homme à cui il d'abeasit se décaree de la foule en détachent l'arrotée."

"Mais au moins, Monsieur, vous me direz votre nom, afin que je sache quel est mon bienfaiteur." Pour toute réponse, l'homme a qui il s'adressait se dégagea de la foule en détachant l'agrafe" de son manteau, qui tomba dans les mains du pauvre Pierre de plus en plus surpris. Le pêcheur se décida enfin à retourner au logis.

### LE FRONT.

(b.) Max se frottait le front : "Quel est ce blanchissage † ? Lui demanda sa sceur : "As-tu done le front noir ?" —"J'étais un peu méchant ; maman pourrait le voir. C'est écrit sur mon front quand je ne suis pas sage."

Et Max frotte encore davantage. 11 croit qu'en essuyant les marques s'en iront. Pas du tout : son front devient rouge, Et sa mère, en rentrant, dit, avant qu'il ne bouge : "Max vient d'être méchant ; c'est écrit sur son front !" (L. RATISBONNE.)

(c.) "La médecine est à la mode parmi nous ; elle doit l'être. C'est l'anusement des gens oisifs et découvrés, qui, ne sachant que faire de leur temps, le passent à se conserver. S'ils avaient eu le malheur de naître immortels, ils seraient les plus misérables des êtres. Une vie qu'ils n'auraient jamais peur de perdre ne serait pour eux d'aucun prix. Il faut à ces gens-là des médecins qui les menacent pour les flatter, et qui leur donnent chaque jour le seul plaisir dont ils soient susceptibles, celui de n'être pas morts."

(J. J. ROUSSEAU.)

2. Write from memory a French version of the passage read out.

3. Translate into French :--

At the end of fifteen or sixteen years, however, it happened one day that the young princess, running about the castle and mounting from room to room, reached a turret, in a little gallery of which she saw a good od woman. "What are you doing there, my good woman ?" said the princess. "I am spinning," my pretty child," replied the old woman, who did not know her. "Oh, how pretty that is!" said the princess. "How do you do it ? What is that plaything in your left hand ? Lend it me, that I may try if I cand ot as well." She had scarcely taken the spindle,§ when she wounded her hand and fainted? ¶ away.

\* agrafe=hook. + blanchissage = washing \$spin = filer. \$ the spindle = le fuseau. ¶ faint away s'évanouir.

432

7.

15

VALUE.

12.

4. Write in the plural :--nes, trou, genou, sou, feu (noun), bal, cheval, celui, ce, lequel. Give the masculine of fratche, favorite, impératrice, canseuse, active, gentille, jeune.

5. Give the present and past participles of avoir, coudre, mourir, vivre; the 3rd person singular and the 2nd person plural of the present indicative of faire, ocular; and of the present subjunctive of venir, punir; the 3rd person singular of the future indicative of voir, aller; the first person plural of the imperfect subjunctive of moudre, vainer; ; the infinite of  $lu_i$ ,  $mu_i$ ,  $mu_s$ , su.

6 Translate into French :--- I am speaking to him. Is that your 5. book 1 Give it to me if you please. No! I cannot give it to you because I have promised it to her.

7. Give the adverbs corresponding to the adjectives bon, petit, mauvais with the comparatives of both the adjectives and adverbs.

Write in French words :---William the First, Edward the Seventh, 26th June, 1902.

8. Translate into French:—I live in Scotland. There are fewer inhabitants in all Scotland than in London. The room in which I am sitting is forty feet long by thirty wide. My eldest brother is a foot taller than I. It rains more in spring than in winter.

### FRENCH.

LOWER AND HIGHER GRADES.

### Friday, 13th June.-10.45 A.M.

#### This Paper must not be seen by any Candidate.

To be read out once or twice by the Supervising Officer (or a Teacher) at 10.45 n.m. The substance of this story is to be reproduced by the Candidates in French from memory. No notes may be made while it is being read.

When the Christians under King Richard the First of England defeated the Saracens, the Sultan seeing his troops fly, asked what was the number of the soliders who were making all this slaughter. He was told that it was only King Richard and his men, and that they were all on foot. "Then," said the Sultan, "God forbid that such a noble fellow as King Richard should march on foot," and sent him a noble charger. The messenger took it to the King and said, "Sire, the Sultan sends you this charger that you may not be on foot." The King was as cumming as his energy, and ordered one of his captains to mount the horse in order to try him. The captain object, but the animal proved fiery ; and the captain being unable to hold him in, he set off at full speed to the Sultan's pavilion. The Sultan expected he had got King Kichard ; and was not a little mortified to discover his mistake.

5593

433

8.

6

FF

### FRENCH.

### HIGHER GRADE.

### Friday, 13th June .--- 10 A.M. to 1 P.M.

Candidates must, in all cases, answer Questions 1, 2 and 3 (Section I.); and should attempt FOUR questions (and FOUR only) from the other Section.

No candidate will be allowed to pass unless the necessary standard is reached both in Composition and in Translation.

#### SECTION I.

### 1. Translate into English :---

Marchons ! Mais où m'entraînez-vous ? Enfants du vieil aveugle, en quel lieu sommes nous ? -Syros est l'île heureuse où nous vivons, mon père. -Salut, belle Syros, deux fois hospitalière ! Car sur ses bords heureux je suis déjà venu ; Amis, je la connais. Vos pères m'ont connu : Ils croissaient comme vous, mes yeux s'ouvraient encore Au soleil, au printemps, aux roses de l'aurore. J'étais jeune et vaillant. Aux danses des guerriers, A la course, aux combats, j'ai *paru* des premiers ; J'ai vu Corinthe, Argos, et Crète et les cent villes, Et du fleuve Egyptus les rivages fertiles. Mais la terre et la mer, et l'âge et les malheurs, Ont épuisé ce corps fatigué de douleurs. La voix me reste. Ainsi la cigale innocente, Sur un arbuste assise, et se console et chante. Commençons par les dieux : Souverain Jupiter, Soleil qui vois, entends, connais tout ; et toi, mer, Fleuve, terre, et noirs dieux des vengeances trop lentes, Salut ! Venez à moi, de l'Olympe habitantes, Muses ! vous savez tout, vous déesses ; et nous, Mortels, ne savons rien qui ne vienne de vous.

### (A. CHÉNIER.)

(b.) Dupuis (à Marianne, sa domestique): Vous êtes une maladroite! Taisez-vous! Ne dirait-on pas que cette malle pleine de linge est une montagne à porter ? (A sa femme): Figure-toi, ma chère, que cette sotte fille ne trouve rien de si plaisant que de laisser rouler ma malle du haut en bas de Pescalier!

Marianne: Eh! monsieur, depuis que vous m'avez dit que vous alliez à Rome, je ne sens plus ni bras ni jambes, moi ! je n'ai plus de forces! Aller à Rome! ma foi ! voilà du nouveau . . . et du beau l

Dupuis : Cette fille est folle ! . . . De quoi vous mêlezvous, s'il vous plaît ?

Marianne: De rien. Mais c'est une drôle d'idée, tout de même, qui vous prend de laisser Madame toute seule,—à son âge,—pour aller à Rome! Bien heureux si vous la retrouvez, . . . je n'en répond pas . . .

13.

434

VALUE.

VALUE.

Dupuis (se contenant) : Marianne, prenez garde ! Vous voyez que je ne suis pas content !

Marianne : Je crois bien ! Vous n'êtes pas content des autres, parce que vous n'êtes pas content de vous ; c'est l'usage.

Dupuis (éclatant): Je vous chasse, Marianne !

Mme. Dupuis (sévèrement): Allez vite en bas, ma fille.

Dupuis : Je vous chasse! Quand ce serait le dernier mot que je dirais dans ma maison, il sera obći. (Marianne sort. Dupuis às a femme): C'est votre faute, aussi, ma chère amie. Vous laissez vos domestiques se mettre vis-à-vis de vous sur le pied d'une familiarité déplacée—et voilà ce qui arrive ! Vous avez entendu que j'ai chassé cette fille ?

(O. FEUILLET.)

435

2. (a.) Write from memory a French version of the passage read out.

(b) Allow me to say in your presence, that I don't believe one single word Sir Barnes Newcome says, when he tells me that he is very sorry for some intelligence he has to communicate. He lies, Mr. Boltby: he is very glad. I made up my mind that in whatsoever company I met him, and on the very first day I found him—hold your tongue, sir; you shall speak afterwards and tell more lies when I have done—I made up my mind, I say, that, on the very first occasion, I would tell Sir Barnes Newcome that he was a liar and a cheat. He takes charge of letters and keeps them back. Did you break the seal, it' There was nothing to steal in my letter to Miss Newcome. He tells me people are out of town, whom he goes to see in the next street, after leaving my table, and whom I see myself half-an-hour after he lies to me about their absence.

(THACKERAY.)

3. Answer the following questions on the italicised words in Questions I a. and I b.:—

- (a.) croissaient. Parse this form, and distinguish it from croisaient and croyaient.
- (b.) Paru. Parse and distinguish from paré and pari.
- (c.) Assise. Parse this form and give the primitive tenses of the verb of which it is a part.
- (d.) Vienne. Account for the use of the subjunctive.
- (e.) Form a verb from each of the following words :-- chère, bras, nouveau, beau; and a noun from each of the following :-sotte, haut, bas, wite.
- (f.) Parse en (haut en bas) and en (je n en réponds pas).
- (g.) Give the genders of *âge*, malheur, douleur, and distinguish between *depuis que* and *puisque*.

5593

F F 2

12.

25.

#### SECTION II.

4. Translate:—What a surprise! The accident that happened yesterday. Which of these houses is yours? He had three sons, two of whom are dead. Who was it who said that? Who is the friend you spoke of ? He who will not work shall have nothing to eat.

5. Translate :--Il ne sait pas s'y prendre. Nous nous sommes pris de querelle. Je vous y prends. Bien lui en prit d'être armé. Qu'estce qui vous prend? Prenez-vous en à vous-même. Elle s'est prise d'amitié pour vous ?

6. Translate the following sentences, saying whether the verbs in italies are in the subjunctive or in the indicative, and account for the mood used :--

J'irai volontiers si je trouve quelqu'un qui m'accompagne. Nous n'avons pas entendu dire qu'il renonce à son projet. Ne savez-vous pas que le soleil se lève plus tôt en cette saison ? Je ne crois pas que ce travail dépasse vos forces.

7. Translate :---

- (a.) One must not believe all that one is told. Answer, when you are asked a question. Has anyone come to see me ? This artist is very much spoken of.
- (b.) He came without being invited. Seeing is believing. My being absent need not prevent you from coming.

8. Explain the origin of the negatives ne.. riem, ne.. personne; give similar compound negatives, and show, by illustrative sentences, how rien and personne can have a negative meaning even when used without ne.

9. Where does the *t* come from in *aime-t-il*, *va-t-il*, and the *s* in *je* 7. *viens*, *je vois*. Account fully for the form of the future *j'aurai*.

### FRENCH.

### HONOURS-FIRST PAPER.

#### Friday, 13th June .- 10 A.M. to 1 P.M.

#### 1. Translate into French :---

The art of pleasing is a very necessary one to possess, but a very difficult one to acquire. It can hardly be reduced to rules; and your own good sense and observation will teach you more of it than I can. Do as you would be done by, is the surest method that I know of pleasing! observe carefully what pleases you in others, and probably the same things in you will please others. If you are pleased with the compliasance and attention of others to your humours, your tastes, or your wattenesses, depend upon it, the same compliasance and attention on your part to theirs, will equally please them. Take the tone of the

VALUE

7.

7.

436

7.

7.

VALUE. company that you are in, and do not pretend to give it; be serious; gay, or even trilling; as you find the present humour of the company; this is an attention due from every individual to the majority. Do not tell stories in company; there is nothing more tedious and disagreeable; if, by chance, you know a very short story, and exceedingly applicable to the present subject of conversation, tell it in as few words as possible; and even then throw out that you do not love to tell stories, but that the shortness of it tempted you.

#### (CHESTERFIELD.)

2. Write an essay in French on one of the following subjects :---

- (a.) Que les Français ont tort de négliger les jeux athlétiques dans leur éducation nationale.
- (b.) Que les Français sont mauvais colonisateurs.
- (c.) Que la construction d'un tunnel sous la Manche reliant l'Angleterre à la France serait un bienfait pour la civilisation.

### FRENCH.

### HONOURS-SECOND PAPER.

Thursday, 19th June.-10 A.M. to 1 P.M.

Candidates must, in all cases, answer Section I, and should attempt FOUR (and not more than FOUR) of the Questions in Section II,

#### SECTION I.-TRANSLATION.

1. Translate into English :---

(a.) II y a un autre système, un autre parti à prendre, celui des cherchaurs de vérité et de nouveauté, des renneurs d'Adés, des Staël, des Lessing comme des Voltaire; ici le mot d'ordre, c'est que le mouvement, quel qu'il soit et tant qu'on peut se le donner, est le plus graud bien de l'esprit comme du corps. L'esprit humain ne compte que sous un perpétuel aiguillon. Le plus grand danger pour lui est de devenir stagmant et de croupir. Mieux vaut s'user que se rouiller. Nous sommes des machines, d'admirables machines ; ne laissons pas s'epaissir et se figer en nous les huiles des rouages. Certaines idées sont belles, mais, si vous les répétez trop, elles deviennent des lieux communs : "Le premier qui les emploie avec succès est un matre, nais, quand elles sont usées, celui qu'il se emploie encore court risque de passer pour un écolier déclamateur." C'est Voltaire, l'excellent critique qui a dit cela, et à propos de Racine fils. Les choses justes allesemèmes ont besion d'être renouvelées et retournées ; c'est la loi, c'est la marche. Un souverain qui monte sur le trône n'est pas plus jalous de erfondre toute la valeur, ne sont portés en genéral à casser et à frapper à neuf les jugements littéraires émis par leurs devaciers. It y a quelque abus peut-être, mais cela ne vaut-il pas mieux que d'avoir de ces jugements comme des monnaies usées, effacées, qui glissent entre les doigte et qu'on ne distingue plus l' Art, critique entre les doigte et qu'on ne distingue plus l'Art, critique entre les doigte et qu'on ne distingue plus l'Art, critique

30.

VALUE.

438

recommençons donc toujours, et ne nous endormous pas. Ce que Virgile a remarqué des semences est vrai des hommes : il faut les trier, les épurer, les agiter sans cesse; autrement tout dégénère. Tous les génatus peuvent servir le talent, hormis la faiblesse. On se trompe sur les généalogies littéraires, si on les prend de trop prés et comme à bout portant, dans le sens apparent et superficiel. Le vrai successeur direct d'un grand homme, c'est son égal et son pareil dans l'àge suivant.

STE, BEUVE.

(b.) Reply of a veteran soldier of Napoleon to Marshal Marmont, who pleads as an excuse for betraying the Emperor, that the Marshals were tired of the endless wars.

> Et nous, les petits, les obscurs, les sans-grades, Nous qui marchions fourbus, blessés, crottés, malades, Sans espoir de duchés ni de dotations ; Nous qui marchions toujours et jamais n'avancions; Trop simples et trop gueux pour que l'espoir nous berne De ce fameux bâton qu'on a dans sa giberne Nous qui par tous les temps n'avons cessé d'aller, Suant sans avoir peur, grelottant sans trembler, Ne nous soutenant plus qu'à force de trompetté, De fièvre, et de chansons qu'en marchant on répète ; Nous sur lesquels pendant dix-sept ans, songez-y, Sac, sabre, tourne-vis, pierres à feu, fusil, —-Ne parlons pas du poids toujours absent des vivres !---Ont fait le doux total de cinquante-huit livres ; Nous qui coiffés d'oursons sous les ciels tropicaux, Sous les neiges n'avions même plus de shakos ; Qui d'Espagne en Autriche exécutions des trottes ; Nous qui pour arracher ainsi que des carottes Nos jambes à la boue énorme des chemins, Devions les empoigner quelquefois à deux mains ; Nous qui pour notre toux n'ayant pas de jujube, Prenions des bains de pied d'un jour dans le Danube ; Nous qui n'avions le temps quand un bel officier Arrivait, au galop de chasse, nous crier "L'ennemi nous attaque, il faut qu'on le repousse !" Que de manger un blanc de corbeau sur le pouce, Ou vivement, avec un peu de neige, encor, De nous faire un sorbet au sang de cheval mort ; Nous . . , nous ne l'étions pas, peut-être fatigués ?

#### SECTION II.

 Write ten short sentences, each containing one of the following words, so as to bring out the difference in meaning from the cognate word in English. In every case give a translation:-sentence, vikin, vicaire, vaisselle, verge, tuteur, trouble, trépasser, transpire, avertin.

 Trace the etymology and the original meaning of the following ten words: —acquitter, payer, ainé, aloi, (en) amont, (en) aval blame, chétif, ordance, dimanche.

15.

10.

VALUE.

10.

10

4. Translate the following sentences to illustrate the differences in the use of the respective prepositions :-

- (1.) The soldiers lived on bread and water.
- (2.) His success has entirely depended on his industry.(3.) He survived all his children.
- (4.) I pity you.
- (5.) He enjoys very good health.(6.) He ascended the throne of his ancestors.
- (7.) He died a glorious death.
- (8.) It is difficult to remedy the evil.
- (9.) We must obey the dictates of reason. (10.) I want a new book.

Translate the following idiomatic phrases, and trace where you can the original meanings of *en* and *y*:—

 (1.) Yous n'y étes pas. Yous y êtes.

- (2.) Il y va de son bonheur.
- (3.) Je saurai bien m'y prendre.
  (4.) Je ne lui en veux pas le moins du monde.
- (5.) Il s'en est donné.
- (6.) En venir aux mains.
- (7.) Il s'en faut de peu.
- (8.) N'en pouvoir mais.
  - (9.) S'en tenir à.
  - (10.) En être pour.

6. Translate the following sentences, and explain the mood and tense of the words in italics :---

- (a.) Tout ce que raconte Vasari serait vrai, que la grandeur de Raphaël n'y perdrait rien.
- (b.) Sitôt que l'allouette eut quitté sa famille, le possesseur du champ vient avecque son fils.
- (c.) Comment il s'est fait qu'avec ses agréments Jane Austen n'ait rencontré sur sa route aucun de ces jeunes hommes qu'elle aime à décrire, on l'ignore.
- (d.) Que je fasse des excuses, il ne m'en voudra pas moins pour l'avoir offensé.
- (e.) Quand nous arrivâmes au milieu de la plaine, l'ennemi apparut [or] apparaissait sur le flanc de l'armée.

7. Translate the following passage into modern French, adhering as closely to the original as is consistent with modern usage :--

Mais encores que mon feu père de bonne mémoire eût adonné tout son étude à ce que profitasse en toute perfection et savoir politique, et que mon labeur correspondit très bien, voire encore outrepassât son désir toutefois, comme tu peux bien entendre, le temps n'était tant idoine ne commode es lettres comme est de présent, et n'avait copie de telz précepteurs comme tu as eu. Le temps était cone ténébreux, et, sentant l'infélicité et calamité des Goths, qui avaient mis à destruction toute bonne littérature. Mais par la bonté divine, la lumière et dignité a été de mon âge rendue es lettres, et y vois tel amendement que de présent, à difficulté serais-je reçu en la première classe des petits grimauds, qui en mon âge virile étais, non à tort réputé le plus savant dudit siècle.

10.

439

VALUE.

### COMMERCIAL FRENCH.

Wednesday, 18th June.-2 to 3.30 P.M.

The whole of this Paper should be answered.

Translate into English :--

Le Havre, le 3 Février 1902.

Messieurs James Brown et Cie., Courtiers en métaux,

#### Glasgow.

MESSIEURS,

Nous avons bien reçu votre lettre du 30 de l'écoulé et le prix-courant qu'elle contenait.

Comme nous nous attendons à une reprise prochaine des affaires sur notre place, nous voudrions recevoir, dans le plus bref délai, la commande ci-dessous, que nous vous chargeons d'expédier par le premier vapeur en chargement pour le Havre.

100 tonnes de fonte d'Ecosse en gueuse, la tonne de 1000 kilos.

50 tonnes de feuilles de tôle d'un demi-pouce d'épaisseur. 100 boîtes de fer-blanc, à 100 feuilles le quintal.

Nous vous demandons de faire en sorte que nous obtenions de bonnes qualités de fontes, et surtout de veiller à ce qu'il soit fait un bon choix de fer-blanc parmi les parties qui se trouvent sur votre marché.

Veuillez effectuer l'assurance et nous en faire parvenir la police avec les connaissements et votre facture.

Pour le montant qui vous sera dû, nous vous autorisons à trier sur nous à trois mois de date.

Agréez, Messieurs, nos salutations bien empressées.

A. LEGRAND & CIE.

 Reply to the above letter, acknowledging receipt, and stating if you have been able to execute the orders given and arrange for shipment, and, if so, mention that you enclose the documents and draw as requested.

3. Translate the following market report :---

La raideur de ce jour a été motivée par la ferme attitude de la province, par l'arrêt des filatures et par les haussiers, ce qui donne lieu à de vives inquiétudes du côté des baissiers. Les affaires ont été plutôt calmes; d'ailleurs il n'y avait guère que des acheteurs à découvert cherohant à se couvrir, et des haussiers augmentant peu à peu leurs engagements, mais, comme les vendeurs ont été très rares, le marché a été presque inactif. Le fond de l'article reste très ferme.

- 4. Turn into French the following advertisement, and write a letter applying for a situation with the firm in question, stating your age, if you have had any experience of office work, if you have learned book-keeping and shorthand, and if you are able to write a business letter in any foreign language :--
  - "Messrs. Leblanc, Sons & Co., of Marseilles, require a young man for their shipping-office in that city. One with a knowledge of book-keeping and shorthand, and acquainted with some foreign language preferred."

16

12.

24.

[18]

441

VALUE.

24.

5 (a.) Explain in English the following French business terms :--

(1.) Le taux de l'escompte.

- (2.) Vendre au comptant ou à terme.
- (3.) Le gérant d'une succursale.
- (4.) Les approvisionnements ont fait défaut(5.) Papier à longue échéance.
- (6.) Le relevé d'un compte.
- (7.) Solde de compte porté à nouvcau.
- (8.) Un article de provenance étrangère.

b.) Translate into French the following expressions :---

(1.) Bills of Lading in duplicate.

(2.) The cancelling of the contract.

To make an estimate of the loss.
 To make an estimate of the loss.
 To get a good investment for one's money.
 To enter the amount in the cash-book.

(6.) The underwriters accept the risk.

(7.) Mr. A. is on the Board of Directors.

(8.) He is a shipowner and grain merchant.

GERMAN.

### LOWER GRADE.

### Thursday, 12th June.-2 to 4.30 P.M.

To secure full marks, the whole of this Paper should be answered. Additional marks will be given for fair writing in the German character.

#### SECTION I.-TRANSLATION AND COMPOSITION.

#### 1. Translate into English :---

(a) Bor langen Beiten wanderte einmal ein Riefe (giant) auf ber großen Band= ftraße. Plöglich trat ihm ein unbefannter Dann entgegen und rief: "halt! teinen Schritt weiter !"-", Das !" fprach ber Riefe, "wer bift bu, fleiner Rerl, ben ich zwischen ben Fingern zerbrudten tann, daß bu mir ben Beg verbieteft ?"-"Ich bin ber Lob," ermiberte ber andere, "mir widerfteht niemand, und auch bu mußt meinen Befehlen. gehorchen." Der Riefe aber wollte nicht nachgeben und fing an mit dem Tobe ju ringen. Es war ein langer, heftiger Rampf ; zulest aber gab ber Riefe feinem Gegner einen Schlag mit ber Fauft, baß er neben einem Steine nieberfant, und ging feiner Bege. Da klagte ber Tob: "Bas foll baraus werben, wenn ich hier liegen bleibe? Es flirbt niemand mehr auf der Erbe, und fie wird fo voll von Menfchen, baß fie nicht mehr Plat haben, neben einander ju fteben." Endlich tam ein junger Mensch bes Weges, frifch und gefund, fang ein Lied und fchaute luftig um fich. 216 er ben Fremben liegen fab, ging er ju ihm, richtete ihm ben Ropf auf und gab ihm einen fraftigen Trunt aus feiner Flasche, fobaf er balb wieder auffteben tonnte. "Beist bu, wer ich bin, bem bu geholfen haft?" fragte er ben Jungling .- "Rein," ermiberte biefer, nich tenne bich nicht."-"Ich bin ber Lob," fagte ber Frembe, "und verschone niemanb, auch bich nicht. Doch verspreche ich bir, bag ich bich nicht ploglich überfallen, fonbern erft meine Boten. fenden will." Des Tobes Boter aber find bie Krantheiten.

Nach Grimm.

Die Conne, fie machte ben weiten Ritt um bie Belt ;

Und bie Sterne fprachen : "Bir reifen mit Um bie Welt !"

Und bie Sonne fchalt fie : "3hr bleibet ju Bars, Donn ich brenn' euch bie goldenen Meuglein aus Bei bem feurigen Ritt um bie 2Belt !"

- Die Sterntein gingen gum lieben Monb In ber Racht,
- Und fie fprachen : "Du, ber auf ben Bollen thront In ber Racht,

Baß uns wandeln mit bir, benn bein milber Schein Berbrennet uns nimmer die Aeugelein !" Und er nahm fie, Gefellen ber Racht.

- Billtommen, Sterntein und guter Monb, In ber Racht !
- Shr verfteht, was ftill in bem Bergen wohnt In der Macht ;

Rommt, gundet bie himmlifchen Lichter an, Daß ich luftig mit tangen und fpielen tann

In ben freundlichen Spielen ber nacht !

### Ernft Moris Urnbt.

2. (a.) Write out from memory a German version of the passage 15. read out.

(b.) Translate into German :---

(b.) Iransiate into cerman:— Charles and George went to the same school, and liked each other very much (onif). On Charles's fourteenth birthday his friend came and brought him a pretty stick as a present. It was in summer, and the weather was very fine. "What say you (say, sayest thou) to a long walk ?" asked George, who was a few weeks older than the other. Charles was only too glad to go with him. On their way they came to a brook where several children were playing. Suddenly one of them, a little girl, fell into the water, which was pretty deep. The younger of the two boys, who saw it first, jumped in at once, and his friend helped him to save the child. How heartily the mother thanked them when she heard what they had done !

### SECTION II.-GRAMMAR.

3. Give the nominative and genitive singular, and the nominative plural, with the definite article, of the German for any twelve of these words :---hour, night, tooth, leg, wall, bottle, battle, roof, bush, shrub, star, wolf, lion, fox, bird, butterfly.

4. Decline, singular and plural, the German for hard stone, her little daughter, which boy, and the second personal pronoun (in the familiar 4. form only-thou).

5. The nouns Thor, See, Band, feiter are used in two genders : show how the two genders differ from each other both as regards meaning and the formation of the plural.

6. Give the German words for :- 4, 8, 15, 37, 52, 61, 83, 211, 616 ; 4. the 3rd, 101st; %, 11; on the 2nd of May 1902.

12.

442

VALUE. (b)

4.

VALUE. 7. Write out—giving, in the 2nd person singular and plural, only the familiar (not the polite) form :—

(a.) The present indicative and imperfect subjunctive active of nehmen and bürfen.

489

443

- (b.) The imperfect indicative and imperative active of lefen.
- (c.) The present and perfect indicative passive of feben.
- 8. Write out :--
  - (a.) The 3rd person singular present, imperfect, and pluperfect indicative active of fein, mogen, wilffen, entgehen.
  - (b.) The *familiar* 2nd person singular of present and imperfect subjunctive, and of imperative of helfen, thun, vorlefen, vergeben.
- 9. Translate into German :---

The child fell out of the window. This boy came to school without his books. Place the plates on the table. The sick woman lay on her bed. Why do you stand behind the door ? After my work I can go with you.

She remained at home because of the weather.

The soldiers fought bravely in spite of the heat.

GERMAN.

#### LOWER AND HIGHER GRADES.

### Thursday, 12th June.-2.45 P.M.

#### This Paper must not be seen by any Candidate.

To be read out once or twice by the Supervising Officer (or a Teacher) at 2.45 p.m. The substance of this story is to be reproduced by the candidates in German from memory. No notes may be made while it is being read,

An old woman was returning from the town to her village with a basket full of potatoes on her head. It was a hot day, and the road was very dusty. A farmer, who came driving the same way with his cart, took pity on her. "Can I take you home with me, my good woman ?" he asked. She gladly accepted the offer, took the load of her head, and placed it on the cart. She then climbed up herself, and when she was seated she took the basket up again on her knees. The farmer was atomished. "Why do you not set down your potatoes?" he said. "Oh, my good sir," she replied, "it is so kind of you to let me sit on your cart, but it would be too much if your poor horse had also to draw my heavy basket."

4.

8.

### VALUE GERMAN.

### HIGHER GRADE.

### Thursday, 12th June .- 2 to 5 P.M.

The whole of this Paper should be answered. No Candidate will be allowed to pass unless the necessary standard is reached both in composition and in translation.

Additional marks will be given for fair writing in the German character.

### SECTION I.-TRANSLATION AND COMPOSITION.

### 1. Translate into English :--

(a.) Der Anabe, welcher tein Wort und teine Bewegung feiner Führerin verlor fdritt in fcheuer Denut an ihrer Geite einher, benn er glaubte, neben einem überirbifchen Befen zu wandeln. Raum einen Flintenschuß vom Stadtthore entfernt lag der Alten Bohnung, ein niedriges Buttlein, von uralten, bicten Bäumen umgeben. Die Gigen= tümerin fchloß bie Thure auf und rief mehrere Male: "Schwarzmann ! Schwarzmann !" bis fich mit lautem Mianen ein ungeheurer fcmarger Rater von ben 3meigen eines ber Bäume auf ihre Schultern fchmang. "Ei, bu leichtfertiger Gefell!" fcherzte bie 21te und fireichelte ben freundlich fchmeichelnden Liebling, "treibft bu bid) herum, anftatt bas haus zu huten, wenn bie Gebieterin nicht babeim ift ?" Das Tier fchnurrte behaglich, und fdien ben jungen Fremdling neugierig anzuschauen, ber, burch fo viel Sonderbares befturgt, es taum magte, einen Blict in die leuchtenben Mugen ju werfen. Rachbem fie in bie hutte eingetreten waren, ichloß Mutter Lene forgfältig hinter fich zu und führte Urchimbatb in ein reinliches Studden, an bas eine fleine Ruche fließ. Dier hieß fie ihn niebersigen, fcurte bie Gtut des herdes und bereitete in Gile einen wohlfchmeckenden Ruchen, der bem hungrigen Rnaben trefflich mundete. hierauf legte fie ihm die Banbe auf bas haupt, fagte einen Opruch in einer fremden Oprache her, gleich einem Gebete, und forberte ihn alsbann auf, ihr eine fleine Treppe hinauf ju folgen, die aus der Ruche auf einen engen Speicher führte, wo fie ihm einen mit Doos gefüllten Gad gur Lager= ftätte anwies. Danad entfernte fie fich und überließ ben Rnaben fich felbft und feinen Bebanten. Er ftredte fich auf bas ungewohnte Bager bin, und balb fühlten fich feine Slieber von jener behaglichen Barme burdiftromt, die ber Borbote fanfter Ruhe ift; und Schwarzmann, ber nicht lange nachher in bemfelben Raume bie gewohnte Ruheftatte fuchte, fand den neuen Befährten fuß ichlummernd und tauerte fich vertraulich an bes gludlichen Schlafers Seite nieber.

Rarl Schindler.

Bam Freunde Iam ich, ben ich manches Zahr Stift mörg eich nu wär för bärgärt i da.—""Diefe." (prach er, "Und beine Gattin?" (ragt' ida.—""Diefe." (prach er, Zattroortend mir, "ift (fönn orraufsgangans.— Bälle böte göft ich um in "Bielickan nach." Dann bötl 'er Bein, wir tranken und verfinklen Und in Grünn fung alter förgört Äaga. Xis aber längtre Zeit vergangen war, Scaaf' ich nög einmal ich nach (einer Gattin, Und wickerum iprach er: "Eie ging worans, La feit ös mit aufs Öerz, wie er ed meint" ; Zhm in is iz Augen blicken, weicher ja Bitt 'Antroor adsenr fragt 'ör i, "Zjäft feit to?" "Zauf iprach er, "jägn' und feine Wörtte flangen "Sauf iprach er, "jägn' und feine Wörtte flangen "Sauf iprach er, "jägn' und feine Wörtte flangen

Johannes Trojan.

18.

12.

(6.)

# 2. Answer the following questions on the foregoing passages :-VALUE.

5.

Du leichtfertiger Gefell-give the dative of this. Sits ibn nieberfigen-account for the form of the infinitive ; and

mention some other verbs that are similarly construed. Durdftrömt-account for this form of the participle.

und froh begrüßt' er mich-turn this into the passive construction.

3. (a) Write from memory a German version of the passage read 10. out.

#### (b) Translate into German :-

The Roman poet Ennius, and the famous statesman and captain Scipio, were intimate friends, and visited each other almost daily. One day Scipio had a number of letters to write which were to be sent off immediately, and when he saw the poet approaching he shouted to his slave in the vestibule, "Tell the gentleman that your master is not at home." Ennius, however, had already reached the door and heard these words, but, on receiving the message from the slave, he went away without any remark. Next day Scipio had occasion to go to away without any remark. Let a support and observe a go to go to Ennius' house to speak to him on an important mater. But when he knocked at the door the poet, who had seen him coming, called out, "I am not at home," Scripto was assounded, and said, "How am I to understand this ?" "Understand it as you like," replied his friend, " but you must at least admit that I am more polite than you. Yesterday your door-keeper told me that you were not at home, and I did not coubt his word; but to-day I tell you myself that I am not at home, and you won't believe me."

#### SECTION II.

4. Give the nominative and genitive singular, and the nominative plural, with the definite article, of the German for any ten of these words :--- plough, rake, fork, frock, greatcoat, pan, ceiling, pilgrim, market, sentence, question, rule, volume, danger, proof, host.

- 5. Write out :---
  - (a.) The 3rd person singular of the present and perfect indicative, and of the imperfect subjunctive active of betreiben, entjenden, weisfagen, bu'rchlaufen, burchlau'fen.
- (b.) The 2nd person singular of the imperfect indicative and imperative active, and the infinitive with zu, of abuehmen, ausmeffen, befchlen, verfehlen, aufheben.

C. Illustrate by complete sentences (with translation) the government of the propositions famt, vermöge, trot, zufolge, wiber, fonder, bis, laut, um, binnen. 5.

7. Give the German for the following names of countries, together with the respective appellation of a native (with the indefinite article), and the corresponding adjective (e.g., Scotland, a Scotchman, Scottish) :-- Africa, Germany, Russia, Spain, Italy, Turkey, Greece, Portugal, Poland, Hungary.

25.

5.

5.

VALUE. 5.

5.

446

8. The following English words correspond etymologically to German words of somewhat different meaning. Give any ten of the corresponding German words, with their meanings :--crafty, naughty, shallow, bold, stout, dreary, dumb, slim, hour, yeast, bird, string, rise, spoon; to dip.

9. Give the German for the following numerical expressions :twice a week, every other day, a triple string, to drive in a coach and six, in  $2\frac{1}{2}$  years (to be expressed in two ways), 1001 nights, a girl in her teens, you have to choose one of the three, a vigorous sexagenarian.

#### GERMAN.

#### HONOURS.-FIRST PAPER.

### Thursday, 12th June.-2 to 5 P.M.

#### Additional marks will be given for fair writing in the German character.

I. Translate into German :--

"To Loches." The name of a castle, or rather prison, yet more dreaded than Plessis itself, fell like a death-toll upon the ear of the young Scotchman. He had heard it described as a place destined for the workings of those secret acts of cruelty with which even Louis shamed to pollute the interior of his own residence. There were in this place of terror dungeons under dungeons, some of them unknown even to the keepers themselves; living graves, to which men were consigned, with little hope of further employment during the rest of their life than to breathe impure air and feed on bread and water. At this formidable castle were also those dreadful places of confinement called cages, in which the wretched prisoner could neither stand upright, nor stretch himself at length—an invention, it is said, of the Cardinal Balue. It is no wonder that the name of said, of the Cardinal Ballet. It is no wonder that the name of this place of horrors, and the consciousness that he had been partly the means of despatching thither two such illustrious victims, struck so much sadness into the heart of the young Soct, that he rode for some time with his head dejected, his eyes fixed on the ground, and his heart filled with the most painful reflections.—SIR WALTER SCOTT.

II. Write a German essay on one of the following subjects :---

Die Unnehmlichteiten des Candlebens im Beraleich au benen bes Stadtlebens Die Liebe zur heimat und zum Baterlande.

Die Beziehungen zwischen Maria Stuart und Elifabeth.

45.

## GERMAN.

## HONOURS .- SECOND PAPER.

## Monday, 16th June.-2 to 5 P.M.

## The whole of this Paper should be answered.

Additional marks will be given for fair writing in the German character.

## SECTION I.-TRANSLATION.

# 1. Translate into English :--

(a.) Gie läckete verbeugt fich mit Annut und Büche und bat uns in fir Saus eingurtetn. Sie that des alles ruhig und formooll, mit den einfachen Municren der beiten Geschlächt, ohne Ubereitung und ohne einen Schatten von Berlegundet. Doch fohen fin mich verhöhlten ein verlig zu beschaften, wöhrend fie fich ertlundigte, wannt ich angefommen wärz und do ich dich erstaunt geweien fie fich ertlundigte, wannt ich uns eine Kleine Löhn zur die Ausschaft aus eine Schatten beite geschlächtet, bogen wir um die Eche und in der höhnt geken Mannentreffen mit dem Freunde berichtete, bogen wir um die Eche und in der höhnt geken höhnt auch meisten öftene fich uns eine Kleine Löhn durch die verlieften Schatten. Ein spund lag rähmend an der Kette unter einem hellgentung Feigenbaum, und ein flarere Bustigerichtet flos eintögig unterneho aus einer eilernen Möhr ein flareren Bustigerichtet flos eintögig unterneho aus einer eilernen Möhr ein fichterens Bustieren bei Umen leitigun geformtes kupfernes Echöpfeläß hing. Einte, im bichen Schatten der undern eiltigten Ausschaft von Beiten von Bustin, ein fleinen Echipterliches Geschatten mit gefünen Chaben und fest versitteren Geschaften ber Umen und Platanen, lag das haus, umträngt von Böhren unde Wein, ein fleines töhrerliches Geschaben mit gefünen Chaben und höft versitterten Freihen Berten ich eines fleines fichten einen beiten beit der einer Berten im Geschaften ber Umen und Platanen, lag das haus heit versitter im Geschaften ber Umen und Platanen, lag das haus, umträngt von Böhren under Beitne föhrerliches

## Johannes van Dewald.

403

447

(b.) 3m Sommer 1729, als die Enfagidie Familie für einige deit im Bufterburfen aufbielt, batte fich ber Born des Königs gegen bas ältere Geldwiftrepaar in foldern Budle eröftyk höge rife, die Eulofigelin ausgenommen, gang aus feiner und ber Blatter Gegenwaart verbannte. Pur insgehörin, bes Stachmittags vern ber König feinen Engaiergang machte uurfe flich die EURuter See Unnangs mit ihren. Minkern erfreuen ; batei nurben jedoch jebesmal Blachen ausgelfellt, um fie von har Midfiels wahrgenommen hätte, feiner giumpflichen Bechandlung genätzigen butte. Ginte Zuges harten misse für einer Giumpflichen Bechandlung genätzigen butte. Ginte Stages hatten bis Blachen indes ihren Zuftrag fo fälteft beforgt, baß nur plöglich, gang bag ber gening eitig eitig einer Blachford und führle, abbrech bis genäumitet, als bag ber gering eitig in einen Blandformt (führle, subbrenb bis genäumitet, als bag ber gering eitig eitig nur Blandformt (führle, subbrenb bis genäumitet, als auf gene Zeiffel und föltaf geri lange Etunden, möhrenb weichger bis Geligen fich auf einen Seiffel und ichluf zur innege Etunden, weisen sollter einigten einigten schlaus in einigten gene einigten schlaus einigten schlausten schlausten schlausten schlausten schlausten einigten schlausten schlausten schlausten schlausten schlausten schlausten schlausten schlausten einigten schlausten einigten schlausten sch

Franz Rugler.

10.

VALUE.

448

(c.) Aus ber hampfenben Stabt entfoh mein Bielöhen mir geftern, "hat fich bem gefinenben Schuß lachnber Furen vertraut. Und von weileft bu num mein Eichden, im fernen Bisfahoe, Wäßbrenb bes Zageis Glut left am Gimmel verglimmt? Gingft bu tinaus mir tem Wähöden, zu fammeln bas Dolf auf ber Wiefe,

Das vom belafteten Baum freudigen Sprunges entfällt? Dithen am Malbesjaum zieht fachte bie herbe hertiber,

und der Pflüger entfchirtt fingend das mübe Gespann. Der fehreft du beim vom Berg durch fäufelnde Baldung

Mit ber freundlichen Laft faftiger Beeren im Rorb ? Droben vom Ubhang blidet ein Reh neugierig herunter,

Bahrend gutbener Glanz scheidend die Bipfel berührt. Dber weilft bu am Quell unferne dem bammernden Garten? Eben tehret vom Trog munter bas schectige Rind.

Unter bie Röhre ftelift bu ben Krug, bie Blumen zu tränten, Die auf bem Fenftergesims bort in der Kammer die blubn. Längt ichon überiprudett der Krug, du figeft am Raine, Blickeft mit träumerbem Aua' in ben verrinnenben Bach.

Bilhelm Berg.

#### SECTION II.

2. Answer the following questions on the foregoing passages :---

(a.) Mann ich angekommen wäre, und ob ich nicht erstaunt gewesen seicomment on these subjunctive forms.

(b.) Die Mahlzeiten ausgenommen;--von dem man sich keiner glimpflichen Begandtung gewärtigen durste :---express these in a somewhat different way

without changing the meaning.

(c.) Comment on freudigen Sprunges-fachte-unferne.

3. Translate idiomatically into German :----

(a.) He ought to have done it, but would not listen to reason.

(b.) The leader was followed by fifty picked men.

(c.) This little boy is said to be uncommonly clever.

(d.) You will oblige me very much by doing what I told you.

(c.) He is a good-for-nothing fellow, who will never come to anything.

4. Write (with translations) ten short sentences, each containing one of the following verbs correctly used, so as to bring out its meaning and construction :--foont, fluxer (in a figurative sense), fid antiperative, translation, tracking in tribun, tracking in the sentence of the s

5. Illustrate the use of prepositions by giving the German for ten of the following adverbial expressions :—for heaven's sake, out of reach, beyond doubt, for this very reason, notwithstanding his promise, to be just in time, to lie at anchor, from to-day, in any case, on strong grounds, out of breath, on his arrival, in the Isle of Man, from pure iealonsy.

6. Form abstract nouns, with the definite article and meaning, from any ten of these :---rob, raub, etcl, bunkt, ficher, bieber, finster, geschwind, bekannt, miko, fank, beit, funtisk, träge, fchabenfrob.

10.

10.

5.

б.

5.

7. Give the meaning, and if possible synonyms, of any ten of these words :- fulle, Beiher, Geftade, Gemach, Trube, Bange, Berantaffung, 5. Schweif, Bergug, betroffen, altfrantifch, tirre, flatterhaft, beimfuchen, fchwelgen.

- 8. Explain the force of the prefix ges in Gebiß and Gebeiße, and give five 5. other instances of each kind, with the definite article and meaning.
- 9. From each of the following verbs give three derivative nouns or 5 adjectives, with their meanings :- freveln, betrügen, reten, lachen, ichaffen.

# ITALIAN.

# Monday, 16th June. -2 to 5 P.M.

The whole of this Paper should be answered. No Candidate will be allowed to pass unless the necessary standard is reached both in Translation and in Composition

1. Translate :--

(a.) Alla perfine, si gridò la stazione di Cupra Marittima. La fermata fu lunga, e non giovò che io battessi i piedi ; la vaporiera non dava segno di vita. Temetti d'un guasto occorso in qualche ordigno, o d'un ostacolo attraversato sulla via ; de ra già allo sportello per pigliar lingua dal primo guardiano che avessi veduto, quando un suono di corno diced i segnale della partenza. Ah, manco male per questa volta a Grottamare ci si va. Ancora dodici minuti e tutti pari! Non starò a dire da che piede scendessi. Già prima che il convoglio si fermasse, m' era buttato fuori con mezza persona dallo sportello, per girar la maniglia. Balzai, credo, dallo smontatoio prima che i guardiani scendessero; diedi il mio biglietto al portinaio, e via come una saetta. Cesarino, che era venuto ad attendere il mio arrivo, durò fatica a raggiungermi. Udii la sua voce e mi fermai appena quel tanto che gli consentisse di giungermi a pari.-Orbene,-gli chiesi, come sta !-Benissimo, signore ; vi aspetta.--

Sento in quel fondo gracidar la rana,

Indizio erito di futura piova; Canta il corvo importuno, e si riprova La folaga\* a tuffarsi alla fontana: La vaccherella in quella falda piana

Gode di respirar dell'aria nova, Gode di respirar ten azza norm, Le nari allarga in alto, e si le giova Aspettar l'acqua che non par lontana : Veggio e lieve paglie andar volando, E veggio como obliquo il turbo spira, Par le raba anel palact rotando :

E va la polve qual paleo† rotando : Leva le reti, o Restagnon, ritira Il gregge agli stallaggi : or sai che, quando Manda suoi segni il ciel, vicina è l'ira.

> \* folaga = moor-hen. + paleo=top.

GG

5393

(b.)

449

495

10.

(c.) Confessando i propri mali, quantunque palesi, l'uomo nucce molte volte ancora alla stima, e quindi all'affetto che gli portano i suoi più cari : tanto è necessario che ognuno con braccio forte sostenga se medesimo, e che in qualunque stato, e a dispetto di qualunque infortunio, moscrando di se una stima ferma e sicura, dia esempio di stimarlo agli altri, e quasi li costringa colla sua propria autorità. Perchè se l'estimazione di un uomo non commeia da esso, difficimente cominerà ella altronde : o se non ha saldissimo fondamento in lui, difficilmente starà in piedi. La società degli utomini è simile al fiudi ; ogni melecola dei quali, o globetto, premendo fortemente i vicini di sotto e di sopra e da tutti i lati, e per mezzo di quelli i lontani, e dessendo ripremuto nella stessa guisa, se in qualche posto il resistere e il risospingere diventa minore, non passa un attimo, che concorrendo verso cola a furia tutta la mole del fluido, quel posto è occupato da globetti nuovi.

2. Write from memory an Italian version of the passage read out.

## 3. Translate into Italian :---

One of the blacks, who understood Arabic, hearing me speak thus, came towards me, and said, Brother, be not surprised to see us; we are inhabitants of this country, and come hither to-day to water our fields, by digging little canals from this river, which comes out of the neighbouring mountain. We observed something floating upon the water, and went to see what it was. When we perceived your boat, one of us swam into the river, and brought it thither, where we fastened it, as you see, until you should awake. Pray tell us your history, for it must be extraordinary ; how did you venture into this river, and whence did you come ! I begged of them first to give me something to eat, promising that afterwards I would satisfy their curiosity.

4. Write in Italian a letter to a friend in Rome, informing him that you are to visit Italy shortly, and telling him which city you most keenly look forward to seeing, and why.

- Non vi fidate di questa donnaccia ; essa è una ciarlona e bugiardona, anzi una bugiardonaccia sfacciata; essa ha pure una linguaccia impudente; la sua linguetta sa trovare agli stessi angiolimi del cielo dei macchioni e difettoni.
- 6. Write six short sentences (with translations) each containing one of the following words correctly used so as to bring out its full meaning:---altrui, checchessia, ciascheduno, ognoruche, qualon, futlaria.

25.

10.

10.

4

6.

450 VALUE.

VALUE.

8.

7. Write out the imperative of andare and vedere, the present subjunctive of stare and porre, the past definite (passato remoto) of piacere and venir, and the past participle of trare and salire.

8. Translate into idiomatic Italian: —Where do you get these pretty flowers from '-He is much older than you would think. —Tell him to let me know at what time I can see him to-morrow.—I don't exactly mean that he is a bad man.—Provided he keeps his word, we have nothing to say against him.—Please don't forget to give my kind regards to your brother.

## ITALIAN.

### Monday, 16th June.-2.45 P.M.

## This Paper must not be seen by any Candidate.

To be read out once or twice by the Supervising Officer (or a Teacher) at 2.45 P.M. The substance of this story is to be reproduced by the Candidates in Italian from memory. No notes may be made while it is being read.

A merchant who had become rich through a life of hard work, was walking one hot day in the garden of his country house, when he caught his gardener taking a nap under a tree. He scolded him soundly for his laziness, and ended by telling him that such a sluggard did not deserve to enjoy the light of the sun. "Exactly," said the gardener," and that was the reason why I crept into the shade."

## SPANISH.

#### Monday, 16th June .--- 2 P.M. to 5 P.M.

The whole of this Paper should be answered. Candidates will not be allowed to pass unless they reach the necessary standard both in composition and in translation.

#### SECTION I.

#### 1. Translate into English :---

(1.) Hallándose Aben Jucef meditando una expedición contra Castilla, se le presentó el astuto infante D. Juan, asegurándole que venia ás us crvicio y por este medio logró que le diese el mando de cisco mil caballos con destino à la conquista de Tarifa. Presentóse en efecto delante de la plaza que, defendida por D. Alonzo Pérez de Guzmán, rechazó con denuedo\* los repetidos y formidables asaltos de los situádores. Conoció el infante la dificultad de su empresa, pero más irritado con una resistencia que ofendía su amor propio, juró no abandonarla hasta conseguirla, si no con su valor, por cualquiera otro medio. Supo que D. Alonzo, temiendo los peligros del bloqueo, había sacado de Tarifa á su hijo único, niño de pocos años, y le había

\* boldly.

G G 2

10

5593.

robasen y se le llevasen al campo; y participando á su padre que le tenía en su poder, le intimó luego que si no vendía la plaza, perecería el niño á filos" de su espada. El noble D. Alonzo, haciéndose superior á los sentimientos de la naturaleza, no vaciló un momento y aseguró al infante que defendería á Tarifa hasta exhalar sus últimos alientos.

LA MONA.

(2.)

Subió una mona á un nogal† Y cogiendo una nuez verde, En la cáscara‡ la muerde ; Con que le supo§ muy mal. Arrojóla el animal Y se quedó sin comer. Asi suele suceder A quien su empresa abandona, Porque halla como la mona Al principio que vencer.

## DOÑA MARIA-DOÑA GREGORIA.

Doña Greg .-- Ni en mi cuarto ni aquí encuentro la carta, Doña Maria.

Doña Maria,-No se canse V. más en buscarla, Doña Gregoria.

D<sup>a</sup> Greg.—Yo misma la recibí del cartero. No s puedo haberla escondido. Una distracción de las mías, No sé donde

Dª M.-i. Está V. segura de que la tal carta era para mí?

D<sup>a</sup> Greg.—Á Doña María del Pilar decía el sobre, calle de la Estrella, número 23, cuarto principal, habitación de huéspedes. En esta casa no hay más Pilar que V.

D<sup>a</sup> M.-Pues no sé de quién pueda venir. A mí nadie me escribe.

D<sup>a</sup> Greg.-Algún antiguo conocimiento de su padre de V. El era muy rico, ¿ verdad ?

Dª M .- Muy rico no; pero cuando vino á Madrid, contaba con cincuenta mil duros para mi dote.

D<sup>a</sup> Greg.-Y, ¿ todo lo perdieron ustedes ?

Dª M .-- Lances de fortuna, Doña Gregoria. Un millón poseíamos, en billetes de banco por cierto ; y, al morir mi padre ... haga V. cuenta que ni un maravedí nos quedó. Había una deuda, que importaba más de otro tanto; era mi padre muy hombre de bien, y quiso pagarla.

D<sup>a</sup> Greg.-Ya. Debiendo .... y teniendo conciencia .... No tenía conciencia de huésped su padre de V. Si me hubieran pagado á mí todos los que me han debido hospedaje, ya hubiera dejado este ejercicio tan afanoso.

\* at the edge of. + Walnut tree. \$ Shell. § Supo here in sense of qusto.

12.

VALUE.

8.

2. Translate into Spanish :---VALUE.

We left New York for Liverpool by one of the steamers of the White Star Line. We had a good passage, and only took six days to cross the Atlantic. The first day the sea was rather rough,\* but afterwards it became calmer, and we were able to remain all day on deck, enjoying the fresh breezes of the ocean. The officers of the ship were very kind, doing all in their power to make us comfortable. On arriving at Liverpool the Custom House officials† came on board to examine our luggage, after which we were allowed to go on shore.

We said good-bye to the friends whose acquaintance we had made during the voyage, hoping that we might have the pleasure of meeting them again on the return journey.

3. Write from memory a Spanish version of the passage read out.

#### SECTION II.

4.	Give the feminine of the following nouns : pariente, fraile, gallo,
	conde, héroe, Belga. And write (in full) the past definite tense,
	and the first person singular present and imperfect subjunctive
	of the verbs :estar, poner, oir, coger, empezar, seguir.

8.

8.

10.

20.

5. Mention the relative pronouns in Spanish, and form short sentences showing their use.

6. (a) Translate into English the following idiomatic expressions :-

- (1.) Vd. debe hacer eso cuanto antes.
- (2.) Jamás volveré á ir allá.
- (3.) Yo estaba para decírselo á Vd.
- (4.) Eso se ha echado á perder.
- (5.) Un día sí y otro no.
- (5.) Salga lo que saliere.

12.

12.

- (b) Translate into Spanish :---
  - (1.) There is nothing more to see here.
  - (2.) I was told you were abroad.
  - (3.) Before we go away I should like to call on a friend.
  - (4.) Take care that you are not deceived.
  - (5.) You ought to have done this before.
  - (6.) Would you not have done the same, if you had been there ?
- 7. Write in Spanish a letter to a friend in Spain (using the familiar form tú), telling him that you have been learning Spanish and would like to visit Spain during the summer holidays, in order to get practice in speaking, and asking him to let you know if you could stay with him, what route you should take, &c.

\* agitada. + los aduaneros. 453

#### SPANISH.

#### Monday, 16th June.-2.45 P.M.

## This Paper must not be seen by any Candidate.

To be read out once or twice by the Supervising Officer (or a Teacher) at 2.45 P.M. The substance of this story is to be reproduced by the Candidates in Spanish from memory. No notes may be made while it is being read.

One day a young man went to a rich merchant and asked him for the loan of five hundred pesetas. The merchant opened his desk and took out the sum, which the young man put in his pocket without counting it. Seeing this, the merchant asked for the money, and putting it back in his desk, sail .... "My friend, I cannot lend you anything, for, in my opinion, a man who receives money without counting it shows that be has no intention of paying it back."

## ARITHMETIC.

## LOWER GRADE.

## Wednesday, 11th June.-10 A.M. to 11.30 A.M.

All the work must be shown, and such explanation added as is required to indicate the methods adopted.

Additional marks will be given for neatness, arrangement, and style.

- Multiply 54098 by 6709, and give the meaning of each line of your work.
- Amongst how many persons can £249 be divided, if each receive £3 13s. 2½d., and how much will remain over?
- A piece of material weighing 50 kilogrammes costs £8 6s. 8d.; what is the value of a portion which weighs 6 kilogrammes 350 grammes 1
- 4. If a dollar be worth 4s. 2d., and a rupee 1s.  $3\frac{1}{2}d$ , how many rupees are 186 dollars worth ?

5. Simplify

12

8.

7.

7.

1.) 
$$\frac{\frac{3}{4} + \frac{7}{12} + \left(\frac{7}{15} \text{ of } 1\frac{1}{7}\right)}{\frac{5}{6} + \frac{9}{10} - \left(\frac{2}{3} \text{ of } \frac{13}{20}\right)}$$

 $(2.) \ \frac{1521551}{4148925}.$ 

VALUE.

VALUE.	<ol> <li>In the following piece of work, state what is done in each step, showing the reason for it :</li> </ol>	
10.	$\frac{7}{10} + \frac{4}{15} + \frac{5}{6} = \frac{21}{30} + \frac{8}{30} + \frac{25}{30} = \frac{54}{30} = \frac{9}{5} = 1\frac{4}{5}.$	•
10.	<ol> <li>If '087 of a ton cost £4'71, find the value of 3'4 cwts., expressing the answer in pounds, shillings and pence to the nearest penny.</li> </ol>	
10.	8. A debtor owes his three creditors £1200; £900, and £300 respectively ; if his assets be £850, what should each creditor receive ?	
10	<ol> <li>If a cistern measures 3.75 metres in length, 2.6 metres in breadth, .92 metres in height, find how many litres it will hold; a litre being a cabic decimetre.</li> </ol>	
	and the second se	

 Five per cent. of an army are killed in battle, and fitteen per cent.
 of the survivors die of wounds and disease, leaving 18088 men alive; what was the original number of men in the army ?

# ALGEBRA.

## LOWER GRADE.

Wednesday, 11th June.- 3 P.M. to 4.30 P.M.

All the work must be shown, and such explanation added as is required to indicate the methods adopted.

Additional marks will be given for neatness, arrangement, and style.

1. If 
$$a = 1$$
,  $b = 2$ ,  $c = 3$ ,  $d = 0$ , find the value of  
(1)  $a(b-c) + b(c-d) - c(d-a) - d(a-b) = (2) \sqrt{(b+c)^2 - (a+b)^2} - \sqrt{(a+b)(c-d)}$ .

2. State and prove the rule of signs in multiplication.

10. 6.

6

4.

Simplify 
$$(p-q)(r-s) - (p-r)(q-s) + (p-s)(q-r)$$
.

3. Divide  $x^4 - 56x + 15$  by  $x^2 - 4x + 1$ , and verify the result when x is made equal to 10.

4. Simplify

2

 $x = \frac{1}{1}$ (1)  $\frac{x}{6}$ ;  $x = \frac{1}{x} + 1$ (2)  $\frac{1}{a} + \frac{1}{b} + \frac{1}{a + b} + \frac{1}{c}$ ;  $\frac{1}{a} - \frac{1}{c} + \frac{1}{a - c} + \frac{1}{b}$ 

455

VALTE. 5. Resolve into factors

> (1)  $a^{a} + a - 110$ ; (2) 4x(x-1)-3;

8.

14.

 $\frac{1}{10} + \frac{11}{10} - \frac{1}{5} + \frac{1}{5} + \frac{1}{50}$ (3)  $x^2 + ax + 2ay - 4y^2$ .

6. Solve the equations

(1) 
$$(x-1)(x+1)=(x-3)(x+12);$$
  
(2)  $a(x-b)-b(a+b)=a(a-c)-b(x+c)$   
(3)  $(x-23)(x+23)=(x-22)(x+22)-(x-2)(x+2).$ 

8.

7

7.

- 7. Find the highest common factor of  $2x^3 + x^2 4x 3$  and  $2x^3 + x^2 9$ ; and determine the value of x which will make both expressions equal to zero.
- 8. A man buys  $\frac{2}{3}$  of an estate at £12 per acre, and the remainder at £20 per acre, and, by selling the whole at £18 per acre, he makes a profit of £500 ; find the size of the estate.
- 9. A can do a piece of work in m hours, B can do the same in n hours. If A works for p hours, how long will B take to finish the work ?

10. Solve the equations

(1) 
$$\begin{cases} \frac{1}{3}x - \frac{1}{2}y = 1, \\ \frac{1}{3}x + \frac{1}{3}y = 2; \end{cases}$$

215

(2) 
$$x^{2} + (a + c) x + 2ac = 2a^{2};$$
  
(3)  $\sqrt{\frac{x-2}{x+1}} + \sqrt{\frac{x+1}{x-2}} = \frac{5}{2}$ 

verifying your answers in each case.

# GEOMETRY.

#### LOWER GRADE.

## Wednesday, 11th June.-12 Noon to 2 P.M.

All ordinary symbols and contractions are allowed.

All the steps of the proofs must be given, and the previous propositions, &c., on which they depend, should be indicated.

It is not necessary to write out the general enunciations of propositions, but the particular enunciations should be written out, except when they are given as part of the question.

Additional marks will be given for neatness, good style, and accurately drawn figures.

VALUE. 13.

13.

1. Bisect a given straight line.

I wish to bisect PQ, but the hinge of my compasses has become fixed, so that the distance between the points is less than half but more than a quarter of PQ; find a construction by which I can bisect PQ.

2. Prove that the greater angle of every triangle has the greater side opposite to it.

LMN is an isosceles triangle, L being the vertex; if P be a point in MN, prove that LP is less than LM.

- Prove that the sum of the interior angles of any rectilineal figure is equal to twice as many right angles as the figure has sides, diminished by four right angles.
- 14. ABC is an equilateral triangle in which AD is drawn perpendicular to BC, meeting it in D; if DA be produced to E, show that BAE is equal to the angle of an equiangular polygon of twelve sides.
  - Describe a parallelogram which shall be equal to a given triangle, and have one of its angles equal to a given angle.
    - Describe a parallelogram which shall be equal to a given triangle, and have one of its sides equal to half the base of the triangle, and another side equal to a given straight line.

Explain whether this is always possible.

- 5. If a straight line be divided into any two parts, prove that the square on the whole line together with the square on one part is equal to twice the rectangle contained by the whole line and that part together with the square on the other part.
- Show that this proposition corresponds to a well-known algebraical formula.

6. Prove that if two circles meet in a point on one side of the straight line joining their centres, they will also meet in a second point on the other side of the line, but in no other point.

7. Prove that the angle at the centre of a circle is double the angle at the circumference which stands on the same arc.

- 8. Upon a given straight line describe a segment of a circle containing an angle of half a right angle.
- 10.

10.

14

8.

8.

antimistan and your an in-

# ARITHMETIC. and maying a desail .I

#### HIGHER GRADE.

# Wednesday, 11th June.-10 A.M. to 11.30 A.M.

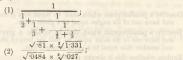
All the work must be shown, and such explanation added as is required to indicate the methods adopted.

Additional marks will be given for neatness, arrangement, and style.

 Find the value of a cubic foot of gold which weighs 1210 lbs avoirdupois, if a sovereign be worth 113 grains of pure gold, and one b. avoirdupois contains 7000 grains.

2. A train 156 feet long is going at a speed of 60 miles per hour ; how long will it take to cross completely a bridge 295 feet long ?

3. Simplify



- (3) '0011 cubic metre + '11 cubic decimetre + 11 cubic centimetres.
- 4. Define the present worth of a sum due at a future date and explain the difference between true discount and banker's discount.
- Find the difference between the true discount and the banker's discount on £520 due a year hence at 4 per cent.
- 5 Multiply 47-23956 by 18:7878, using the contracted method so as to obtain the result correct to 2 decimal places without superfluous work.
  - 6. Find the cost of excavating a cutting one mile long, 13<sup>1</sup>/<sub>2</sub> feet broad, and 4 feet deep, at the rate of 6d. per cubic yard for the first foot in depth, the rate increasing 1d. per cubic yard for each foot in depth.
  - 7. A man sells £10,000 in a 2<sup>3</sup>/<sub>4</sub> per cent, stock at 95 and buys £8500 in a 4 per cent, stock at 106 (brokerage included in each price). If he deposit the rest of the money in the bank at 2<sup>1</sup>/<sub>2</sub> per cent, find the change in his income.
  - If the pressure of air in a diving bell be 68 lb. 1 oz. on a square inch, express that pressure in grammes on a square centimetre, taking an inch as 2<sup>+</sup>/<sub>13</sub> centimetres and 10 lb. as 4<sup>+</sup>/<sub>13</sub> kilogrammes.
  - A certain sum of money at a certain rate of compound interest amounts in 3 years to £703.04 and in 4 years to £731.1616; find the rate and the sum.

15.

12

6.

6.

.0

8.

10.

12

12.

458 VALUE.

## ALGEBRA.

#### HIGHER GRADE.

## Wednesday, 11th June.- 3 P.M. to 4.30 P.M.

All the work must be shown, and such explanation added as is required to indicate the methods adopted.

Additional marks will be given for neatness, arrangement, and style.

. Expand 
$$(1 + x + x^2 + x^8)^3$$
.

Prove the identity.

 $(b + c - a)^2 (b - c) + (c + a - b)^2 (c - a)$  $+ (a + b - c)^2 (a - b) + 4 (b - c) (c - a) (a - b) = 0.$ 

2. Prove that  $a^m \times a^n = a^{m+n}$ , when m and n are positive integers.

Explain how this theorem is used to obtain a meaning for a negative power of a number, as, for example,  $x^{-4}$ .

3. Solve the equations

12,

1) 
$$\frac{x^2 - x + 1}{x^2 + 2x + 5} = \frac{x^2 - x - 1}{x^2 + 2x + 3}$$
;  
2)  $\begin{cases} \frac{x + 2}{a} = \frac{y + 2}{b}, \\ (a - b)^2 + abxy = 0, \end{cases}$ 

7 4. If y = x - 1, and  $x^3 + 2x^2 + 3x + 4 = Ay^3 + By^3 + Cy + D$  for all values of x, find the values of A, B, C, D.

5. Prove that a quadratic equation eannot have more than two different roots.

If a,  $\beta$  be the roots of  $x^2 - px + q = 0$ , and  $2\alpha - \beta$ ,  $2\beta - \alpha$  be the roots of  $x^2 - p'x + q' = 0$ ; express p', q' in terms of p, q.

6. Solve the equations (1)  $x^2 + x + \frac{1}{2}$ 

(2)

14

10.

$$\begin{cases} x^2 - xy = 6, \\ 5xy + 4y^2 = 19. \end{cases}$$

7. When are quantities in harmonic progression ?

12

Find two numbers whose geometrie and harmonic means are 5 and 3 respectively.

9. 8. If 
$$\frac{by + cz}{b^2 + c^2} = \frac{cz + ax}{c^2 + a^2} = \frac{ax + by}{a^2 + b^2}$$
, prove that  $\frac{x}{a} = \frac{y}{b} = \frac{z}{c}$ 

10

10

VALUE.

VALUE.

10

460

9. Lengths of three carpets at 3s. 6d., 3~ 9d., and 4s. 6d. per yard were ordered, the sum of the lengths being 114 yards, and the total cost £22. By mistake the lengths were altered in rotation, so that the length eut of the first carpet was that ordered for the second, of the second that ordered for the third, and of the third that ordered for the first. If the total cost be now the same as before, find how many yards of each carpet were ordered.

## GEOMETRY.

#### HIGHER GRADE,

#### Wednesday, 11th June.-12 NOON to 2 P.M.

# All ordinary symbols and contractions are allowed.

All the steps of the proofs must be given, and the previous propositions, &c., on which they depend, should be indicated.

It is not necessary to write out the general enunciations of propositions, but the particular enunciations should be written out except when they are given as part of the question.

Additional marks will be given for neatness, good style, and accurately drawn figures.

1. Define a right angle, parallel straight lines, a rectangle, a square.

If the square described on one side of a triangle be equal to the sum of the squares on the other two sides, prove that the angle contained by these sides is a right angle.

17.

If the square described on one side of a triangle be greater than the square described on the other two sides, prove that the angle contained by these sides is greater than a right angle.

 If a straight line be divided equally and unequally, prove that the sum of the squares on the unequal parts is equal to twice the square on half the line together with twice the square on the line between the points of section.

A straight line 46 inches long is divided into two parts, the sum of the squares on which is 1220 square inches; use the preceding theorem to find the length of each part.

3. If the opposite angles of a quadrilateral be supplementary, prove that a circle can be described through its vertices.

Two chords of a circle intersect at right angles, and a quadrilateral is formed by drawing taugents at the extremities of the chords; prove that a circle can be described through its vertices.

10.

12.

ALUE.	4. Inscribe a pentagon in a given circle.
14.	A star is formed by producing the alternate sides of a regular pentagon; prove that the points of the star form a regular pentagon.
	Show also that the side of the larger pentagon is equal to the sum of a side and a diagonal of the smaller pentagon.
	<ol> <li>Equal triangles, which have one angle of the one equal to one angle of the other, have their sides about the equal angles reciprocally proportional.</li> </ol>

ABCD is a trapezium in which AB is parallel to and greater than DC, BD meets AC in E, and DF is drawn from D parallel to CB, meeting AC in F; prove that EF is a third proportional to EA and EC,

6. If from any angle of a triangle a straight line be drawn perpen-dicular to the base, prove that the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle.

- 7. If three planes meet each other, prove from first principles that the lines of intersection are either concurrent or parallel,
  - 8. ABCD is a tetrahedron, each of whose edges touches a given sphere without being produced ; prove that

AB + CD = AC + BD = AD + BC.

## ELEMENTARY TRIGONOMETRY AND LOGARITHMS.

## HIGHER GRADE.

## Tuesday, 17th June.-10 A.M. to 11.30 A.M.

All ordinary symbols and contractions are allowed.

Additional marks will be given for neatness, good style, and accurately drawn figures.

1. Explain the relation between the circular measure of an angle and its measure in degrees.

The diameter of the moon subtends an angle of 31 minutes at the surface of the earth; taking the distance of the moon as 238,941 miles, and a radian as 57° 18', find the length of the diameter of the moon.

2. Give a geometrical proof, applicable to all cases, of the formula  $\cos (A + 90) = -\sin A.$ 

Write down the corresponding formula for sin  $(A + 90^{\circ})$ , and deduce the values of  $\cos (A + 180^\circ)$ ,  $\sin (A + 180^\circ)$ 

12.

8.

9. 9

10.

11.

461

VALUE. 3. Prove the identities

(1) 
$$\sin A + \sin B = 2 \sin \frac{A+B}{2}$$
,  $\cos \frac{A-B}{2}$ ;

- (2)  $\sin 3A = 4 \sin A \sin (60^\circ + A) \sin (60^\circ A)$ .
- 4. Obtain an expression including all angles which have the same cosine as a given angle.

Write down the expressions for all angles which have (a) the same sine, (b) the same tangent as a given angle.

Find all the solutions of the equation

$$\sin^2\theta\cos\theta = \sin\theta\cos^2\theta$$

5. If A, B, C be the angles of a triangle, prove

(1)  $\cos A + \cos B \cos C = \sin B \sin C$ , (2)  $\tan A + \tan B + \tan C = \tan A \tan B \tan C$ .

- 6. Explain how a table of logarithms may be employed to save labour (1) in multiplication, (2) in extraction of roots.

Make a double use of your table of logarithms to find z, when  $(1.045)^x = 1.5.$ 

7. In the triangle ABC,  $A = 40^{\circ} 25'$ , a = 84, b = 75. Show that 8. in this case B has only one possible value, and find that value.

8. The base of a circular tower subtends an angle  $2\alpha$  at a point A in its plane ; at a point B in the same plane, but 100 feet nearer the tower, the angle subtended is  $2\beta$ ; obtain an expression for the radius of the tower in terms of sin  $\alpha$  and sin  $\beta$ , and calculate its value when  $\sin \alpha = 1$ ,  $\sin \beta = 125$ .

## ALGEBRA.

## HONOURS GRADE.

## Wednesday, 11th June.- 3 P.M. to 4.30 P.M.

All the work must be shown, and such explanation added as is required to indicate the methods adopted.

Additional marks will be given for neatness, arrangement, and style.

Candidates may try six questions, namely Nos. 1, 2, 3, and one of the alternatives in each of Nos. 4, 5, 6.

1. Prove that if two rational integral functions of x of the *n*th degree be equal for more than n values of x, they will be equal for all values of x.

By applying this theorem, resolve into partial fractions

 $x^2 + px + q$ (x-a) (x-b) (x-c)

10. 14.

12.

15.

12.

14.

 Find the number of selections of n things taken r together. If C<sub>r</sub> be this number, prove from first principles that VALUE. 15. (1)  $C_r = C_{n-r^2}$ 

(2) 
$$C_1 + C_2 + C_3 + \ldots + C_n = 2^n - 1$$
.

3. Prove the Binomial Theorem for a positive integral index. If

$$(1+x)^n = a_o + a_1 x + a_2 x^2 + \ldots + a_n x^n,$$
$$a_o^2 + a_1^2 + \ldots + a_n^2 = \frac{|2n|}{(|n|)^2}.$$

Show also that if

$$n = mr - 1$$
,  $a_r = (m - 1)a_{r-1}$ .

Alternative Questions.

4a. If

prove that

$$a (y + z) = x, \quad b(z + x) = y, \quad c(x + y) = z,$$

15. prove that

15.

(1) 
$$2aba + ba + ca + ab = 1$$

(2) 
$$\frac{x^2}{a(1-bc)} = \frac{y^3}{b(1-ca)} = \frac{z^3}{c(1-ab)}$$

If

$$\frac{p(q+r-p)}{l} = \frac{q(r+p-q)}{m} = \frac{r(p+q-r)}{n}$$

prove that

$$\frac{l(m+n-l)}{p} = \frac{m(n+l-m)}{q} = \frac{n(l+m-n)}{r}$$

Or

4b. Solve the equations :

15.

$$\begin{array}{l} (2) \ \frac{1}{5} \ (x^4 + 4y^4) = (x + y)^2 + y^2 = 29 \ ; \\ \hline \\ (3) \ (b - c) \ (x - a)^4 + (c - a) \ (x - b)^4 + (a - b) \ (x - c)^4 = 0. \end{array}$$

æ ;

29;

5a. If f(x) denote

(1) v (2)  $\frac{1}{5}(x^4+4y^4)$ 

$$1 + x + \frac{x^2}{1 \cdot 2} + \frac{x^8}{1 \cdot 2 \cdot 3} + \cdots$$

prove that f(x) is convergent for all values of x. 15.

Prove that when x and y are real quantities  $f(x) \times f(y) =$ f(x + y), and deduce that  $f(x) = \{f(1)\}^{x}$ .

 $(x+y)^{t}$ 

VALUE. Or

 $5b.\,$  Define the arithmetic mean and the geometric mean of any number of positive quantities, and show that the former cannot be less than the latter.

15.

If a, b, c be three positive uncqual real quantities, prove that

(1)  $\frac{b}{c} + \frac{c}{a} + \frac{a}{b} > 3,$ (2)  $(a+b+c)^{3} - a^{3} - b^{3} - c^{3} > 24 \ abc.$ 

6a. Prove that in any scale of notation of which the radix is r, if the sum of the digits of an integral number be divisible by (r-1), the number itself is so divisible.

A number is formed in the scale of r by beginning with unity, and writing down the first n digits in order. The number is multiplied by r-2 and n is added. Prove that the result is the number obtained by writing the last n digits beginning with the last.

Or

6b. Show that the expression  $u_n = n(n + 1)(n + 2)$  can be thrown into the form f(n) - f(n - 1), and that the expression  $an^s + bn^s + cn + d$  can be similarly expressed.

Hence find the sum of *n* terms of the series whose *r*th term is  $4r^{3} + 3r^{2} + r.$ 

## GEOMETRY.

# HONOURS GRADE.

## Wednesday, 11th June.-12 Noon to 2 P.M.

All ordinary symbols and contractions are allowed.

All the steps of the proofs must be given, and the previous propositions, &c., on which they depend, should be indicated.

Additional marks will be given for neatness, good style, and accurately drawn figures.

Candidates may attempt seven questions, namely, Nos. 1, 2, 3, 4, and one of the alternatives in each of Nos. 5, 6, 7.

1. If the opposite angles of a quadrilateral be supplementary, a circle can be described through its vertices.

13

Two circles have a common chord AB, and a double chord CBD; two other chords CF, DE intersect in G; prove that A, E, G, Fare convelic points.

15.

15.

show that

 $mAB^2 + nAC^2 = (m+n) AD \cdot AH,$ 

where H is the point in which AD meets the circumscribing circle

Deduce that, when D is the mid point of BC,  $AB^2 + AC^2 = 2(AD^2 + BD^2).$ 

- The sides about the equal angles of equiangular triangles are proportional, those sides being homologous which are opposite to equal angles.
  - BC, BD are two intersecting straight lines, and A is a point in this plane, such that the angle ABC is less than the angle CBD find two points in BC equally distant from A and BD.
- Define a Harmonic Range, and show that if C and D are harmonic conjugates with respect to A and B, then A and B are harmonic conjugates with respect to C and D.

A circle is described touching a straight line AB in C, and having its diameter a harmonic mean between AC and CB; prove that it touches the circle on AB as diameter.

#### Alternative Questions.

5a. Construct a triangle having given the centre of the circumscribing circle, the centre of the nine-point circle, and the mid point of one of the sides.

## Or

- 5b. Explain the principle of inversion, and prove that the inverse of a circle is, in general, a circle.
  - Prove that a system of non-intersecting coaxal circles inverts into a system of concentric circles when either of the limiting points of the coaxal system is taken as the centre of inversion.
- 6a. If any transversal meet the sides BC, CA, AB of a triangle in DE, F respectively then

#### AF.BD.CE = BF.CD.AE.

Prove that the tangents drawn to a circle at the vertices of an inscribed triangle meet the opposite sides of the triangle in three collinear points.

Or

6b. Explain what is meant by the resultant, or sum, of two directed straight lines AB, AC; and show that in this sense the resultant of any number of directed straight lines is independent of the order in which they are taken.

5593

Нн

13.

13.

13.

13

13.

13.

13.

11

7a. Define the polar of a given point with regard to a given circle.

A is a point within a circle, and AB is drawn from A perpendicular to the polar of A, meeting it in B; if PAQ be any chord through A, show that

$$PB: BQ = PA: AQ.$$

0r

7b. ABCD is a tetrahedron in which AB is at right angles to CD, and AC is at right angles to BD; prove that AD is at right angles to BC.

Show that if each edge of a tetrahedron be at right angles to the opposite edge, the mid points of all the edges will lie on a sphere.

## TRIGONOMETRY AND LOGARITHMS.

## HONOURS GRADE.

## Tuesday, 17th June.-10 A.M. to 11.30 A.M.

All ordinary symbols and contractions are allowed.

Additional marks will be given for neatness, good style, and accurately drawn figures.

Candidates may try six questions, namely, Nos. 1, 2, 3, and one of the alternatives in each of Nos. 4, 5, 6.

1. Define the tangent of an angle of any magnitude. Draw the graphs corresponding to the equations

 $y = \tan x$ , and  $y = \cos x$ , and from your diagram indicate in which quadrants the solution of the equation,  $\tan x = \cos x$ , is to be found.

- If, in a triangle ABC, the sides b, c and the angle A be known, and a be expressed in the form (b - c) sec φ find tan φ in terms of b, c, A, and state the advantage of this formula.
  - If a be also expressed in the form  $(b + c) \sin \psi$ , prove that  $(b-c)^2 \tan^2 \phi + (b+c)^2 \cos^2 \psi = 4bc$ .

3. Find the trigonometrical ratios of 30°.

From the top of a cliff 150 feet high, the angle of depression of a boat due north of the observer is  $30^\circ$ , that of a boat in a direction  $60^\circ$  east of north is  $45^\circ$ ; find approximately the distance between the boats.

Alternative Questions.

4a. Prove geometrically that

$$\cos A + \cos B = 2 \cos \frac{A+B}{2} \cos \frac{A-B}{2}$$

Prove that

 $\begin{array}{l} \cos 2\left(\mathcal{A} + B + \mathcal{C}\right) + \cos \left(2\mathcal{A} + B + \mathcal{C}\right) + \cos \left(\mathcal{A} + 2B + \mathcal{C}\right) \\ + \cos \left(\mathcal{A} + B + 2\mathcal{C}\right) + \cos \left(\mathcal{B} + \mathcal{C}\right) + \cos \left(\mathcal{C} + \mathcal{A}\right) + \cos \left(\mathcal{A} + B\right) \\ = 8 \cos \left(\mathcal{A} + B + \mathcal{C}\right) \cos \frac{B + \mathcal{C}}{2} \cos \frac{\mathcal{C} + \mathcal{A}}{2} \cos \frac{\mathcal{A} + B}{2} - 1. \end{array}$ 

13

VALUE

13.

15.

15.

5.

15.

. In any triangle ABC prove that

5. 
$$2\left(1+\sin\frac{A}{2}\right)\left(1+\sin\frac{B}{2}\right)\left(1+\sin\frac{C}{2}\right) = \left(\cos\frac{A}{2}+\cos\frac{B}{2}+\cos\frac{C}{2}\right)$$

5a. If OABCD. be a regular heptagon in which OB = b, OC = c, prove that  $b (b + c)^2 = c^2 (2b + c)$ .

15.

Or

1

. (. . . . . . . .

5b. Define an inverse function.

Prove that

15. 
$$\tan^{-1}\frac{a+b}{1-ab} + \tan^{-1}\frac{b+c}{1-bc} + \tan^{-1}\frac{c+a}{1-ca} = 2\tan^{-1}\frac{a+b+c-abc}{1-bc-ca-ab}.$$

6a. Assuming De Moivre's theorem, prove that

 $\cos \theta = 1 - \frac{\theta^2}{\underline{12}} + \frac{\theta^4}{\underline{14}} - \dots$ ; and  $\sin \theta = \theta - \frac{\theta^3}{\underline{13}} + \frac{\theta^5}{\underline{15}} - \dots$ 

AT is a tangent to a circle at A; and P is a point on the circumference, such that the arc AP = AT, T and P being on the same side of the radius OA. If TP meet AO produced in X, show that, when T moves up to A, the ultimate value of AX is 3AO.

Or

6b. Sum the series

 $\tan^2 x \tan 2x + \frac{1}{2} \tan^2 2x \tan 4x + \frac{1}{2^2} \tan^2 4x \tan 8x + .$  to *n* terms.

Prove that, if  $a = \frac{2\pi}{m}$ ,

15.

11.

 $\begin{array}{l} \cos \, \theta + \cos \, (\theta + a) + \cos \, (\theta + 2a) + \quad . \quad + \, \cos \, (\theta + n - 1a) \\ = \sin \, \theta + \sin \, (\theta + a) + \sin \, (\theta + 2a) + \quad . \quad + \sin \, (\theta + n - 1a) = 0 ; \\ \text{and give a geometrical illustration.} \end{array}$ 

## ELEMENTS OF DYNAMICS.

## ADDITIONAL MATHEMATICAL SUBJECT.

Tuesday, 17th June.-2 P.M. to 3.30 P.M.

All the steps of the proofs must be given, and the work of the calculations should be shown in full. Additional marks will be given for neatness, good style, and accurately drawn figures.

 A body is in motion with a velocity whose components measured parallel to the rectangular axes OX, OY are 3, 4 respectively; it receives an acceleration whose components along the same axes are 2, 8 respectively; find the magnitudes of the resultant velocity before and after the acceleration.

5593

Н н 2

 V.ALUE.
 A body is impelled in a certain direction with velocity V, and has an acceleration a opposite to this direction; find expressions for the velocity after a time t, and the distance travelled during that time.

With what velocity must a body be thrown upwards, so as to rise exactly 144 feet ? (g=32.)

3. Enunciate the Parallelogram of Forces, and show that it may be deduced from the Parallelogram of Velocities.

ABCD is a parallelogram and forces act at a point P proportional in magnitude to PA, PB, PC, PD, and in their respective directions; prove that their resultant passes through the point of intersection of the diagonals of the parallelogram.

4. Define the centre of gravity of a body.

10.

14

From a circle 5 inches in diameter and of uniform thickness a circle 3 inches in diameter is cut, the circles touching internally; find the centre of gravity of the portion remaining.

5. A body of weight W is supported on an inclined plane by a force P acting parallel to the plane; find the relation between P and W.

A heavy body is supported on a plane by a string tied to a mail at the top of the plane, so that the string is parallel to the plane. The plane is attached by a hinge to a horizontal plane. If the tension of the string be equal to the weight of 6 lb, when the nail is 3 inches above the horizontal plane, find the tension after the plane has been turned on the hinge until the nail is 5 inches above the horizontal plane.

6. How do we measure the work done by an agent ?

A bullet while passing along a gun-barrel 4 feet in length is acted on by a pressure equal to the weight of 2 hundred-weights; how much work has been done on the bullet when it leaves the gun <sup>1</sup> and what form has this work taken <sup>1</sup>

 What do we mean by the statement that the specific gravity of a certain substance is (for instance) 13.6.

A cubic foot of water weighs 1000 oz., and the specific gravity of iron is  $7\frac{1}{4}$ ; find the weight of a cubic inch of iron.

8. State Boyle's Law.

A bladder contains 90 cubic inches of air when exposed to the pressure of the atmosphere, the height of the water barometer being 30 feet; find the volume of the air in the bladder when it is sunk in water to a depth of a quarter of a mile.

11.

12

12.

10.

## HIGHER DYNAMICS.

## Additional Mathematical Subject.

### Higher Grade and Honours.

#### Tuesday, 17th June.-2 P.M. to 3.30 P.M.

- All the steps of the proofs must be given, and the work of the calculations should be shown in full. Additional marks will be given for neatness, good style, and accurately drawn figures.
- Candidates may try six questions, namely, Nos. 1, 2, 3, and an alternative in each of Nos. 4, 5, 6.
- 1. What is the moment of a force about a given point ?

Prove that the sum of the moments of (1) any two, (2) any three, forces acting in one plane about a given point in the plane is equal to the moment of their resultant about the same point.

Determine the position of the centre of gravity of a uniform triangular plate.

ABCD is a square cut out of uniform paper, the length of each side being 24 millimetres; if the vertex A be folded in, so as to coincide with the point of intersection of the diagonals, find the distance of the new centre of gravity from the sides of the square.

 If a body be projected under the action of gravity with horizontal velocity U and vertical velocity P, find its position and velocity after an interval t.

A shot is discharged horizontally in the direction of the centre of a target 200 yards distant with a speed of 1800 feet per second; how far below the centre will it strike the target?

#### Alternative Questions.

4a. Masses P and Q are connected by a string passing over a smooth pulley whose weight may be neglected; find the velocity of the masses after they have moved n feet from rest. Find also the tension of the string.

If the velocity after moving 9 feet be 12 feet per second, and the tension be equal to the weight of 15 ounces, find P and Q.

#### Or

4b. Prove that the measure of a given velocity varies inversely as the unit of distance and directly as the unit of time. How does the measure of a given acceleration vary ?

If the velocity and acceleration of a falling body after one second's fall from rest be expressed by the numbers 32 and 320 respectively, find what units of space and time are employed.

15.

VALUE.

15

15.

15

15.

VALUE.

5a. Investigate the conditions of equilibrium of a body which floats on the surface of a liquid.

A uniform bar is supported at its centre of gravity; to one end a weight of 4 lb. is attached, which is counterbalanced by a substance at the other end,  $\frac{2}{9}$  of which are immersed in water; if, however, the weight be increased to 5lb., only  $\frac{5}{12}$  of the substance will be immersed; find the weight and specific gravity of the substance.

5b. Describe two principal kinds of air pumps in common use, and explain their actions.

If the capacities of the receiver and barrel of an air pump, in which there is no space not traversed by the piston, be 120 and 6 cubic inches respectively, find, correct to 3 decimal places, the density of the air in the receiver after the eighth ascent of the piston.

6a. State the laws of friction.

A ladder, inclined at an angle  $\theta$  to the horizon, rests on a rough pavement and against a rough wall, and is on the point of slipping; if the coefficients of friction be  $\mu$  and  $\mu'$  respectively, prove that

$$\tan\theta = \frac{1 - \mu \mu'}{2\mu}$$

6b. If a rigid body be in equilibrium under the action of 3 forces, find all the conditions which the forces must satisfy.

Three equal uniform rods are joined by hinges to form a triangle ABC, which is suspended by a string fastened to the mid-point of BC; find the reactions at B and C.

## GEOMETRICAL CONICS.

#### Additional Mathematical Subject.

# (Higher Grade and Honours.)

#### Tuesday, 17th June.-4 P.M. to 5.30 P.M.

All ordinary symbols and contractions are allowed.

All the steps of the proofs must be given, and the previous propositions, &c., on which they depend, should be stated.

Additional marks will be given for neatness, good style, and accurately drawn figures.

1. Prove that in any conic the part of the tangent intercepted between the curve and the directrix subtends a right angle at the focus.

15.

PQ is a tangent to a conic at P which meets the directrix at Q, and R is another point in the directrix : if P, Q, R and the eccentricity of the conic be known, find the focus.

15

15.

15

Or

15.

Or

#### VALUE

15.

2. Prove that in the parabola  $PN^2 = 4AS.AN.$ 

PP is a cord of a parabola which makes equal angles with the axis and directrix; show that the latus rectum is equal to the sum or difference of the ordinates of P and P, according as these points are on the same or opposite sides of the axis.

3. Prove that any diameter of a parabola bisects all chords parallel 10. to the tangent at its extremity.

4. If the tangent to the ellipse at P meet the axis minor BC in t, and n be the foot of the perpendicular from P on BC, prove that  $BC^2 = Ct.Cn.$ 

- 20. Two ellipses have the same centre and vertices; prove that the tangents at the extremities of their latera recta meet on either axis minor produced.
- 5. In the ellipse prove that the sum of the squares on two conjugate 10. diameters is constant.

6. Prove that any tangent to a hyperbola makes with the asymptotes a triangle of constant area.

A is a vertex of an isosceles triangle ABC, P is any point in ABand BQ is drawn parallel to PC to meet AC produced in Q; prove that PQ always touches a certain hyperbola, and find the vertex and 20. focus.

# ANALYTICAL GEOMETRY.

Additional Mathematical Subject.

## (Higher Grade and Honours.)

## Tuesday, 17th June.-12 Noon to 1.30 P.M.

All the steps of the proofs must be given. Additional marks will be given for neatness, good style, and accurately drawn figures.

The co-ordinate axes may be assumed to be rectangular.

1. Show that every equation of the first degree represents a straight line.

Show that the equation

(3x+2y-1)(2x+3y-1)=0

represents two straight lines, and find their point of intersection.

2. Obtain the equation of a straight line passing through the points (x', y'), (x'' y'').

If the co-ordinates of A be (3, 0), those of B (0, 3), and those of C (-3, 0); and if D divide AB so that  $AD = \frac{a}{3}AB$ , and E divide BC so that  $BE = \frac{a}{3}BC$ ; find the points in which DE cuts the coordinate axes.

13.

13.

3. Show that the equation VALUE.

472

## $ax^2 + 2hxy + by^2 = 0$

always represents two straight lines through the origin; and prove that the tangents of the angles formed at their intersection are

$$\pm \frac{2\sqrt{h^2-ab}}{a+b}$$

13.

13.

4. Find the area of the triangle contained by the lines 4y = x + 3, 2x = y + 1, 3y = 11 - x, illustrating by a figure.

5. Find the equation of the circle, which has (a, b) as centre, and passes through the point (c, d). What are the co-ordinates of the other end of the diameter, one end

13.

of which is (c, d)?

6. Having given that the straight line

 $x \cos a + y \sin a = p$ 

is a tangent to the circle 13.

 $x^2 + y^2 = 9$ ,

find the possible values of p and the co-ordinates of the corresponding points of contact.

7. Transform the equation

$$x (x^2 + 3y^2) = \sqrt{2} a^3$$

13.

by turning the axes through an angle of 45°, and reduce the transformed equation to its simplest form.

# BOOK-KEEPING.

# Friday, 13th June.-2 P.M. to 4.30 P.M.

The following were the balances in the ledger of Walter Thomson, merchant, Edinburgh, at 30th April, 1902 :---

				I	)Y.			C	r.	
				£	5.	đ.	£			l.
Capital				-	-		1,5	00	0	0
Bank of Scotland				170	0	0				
Cash				22	7	0				
Tea				700	0	0				
Coffee				600	0	0				
Bills receivable (J	ames	Forsy	th's)	100	0	0				
Bills payable				-	-			60	- 0,	0
Richard Wilson				56	6	6				
Bruce and Living	stone			-	-			88	13	6
						_				-
			£	1,648	13	6	£1,6	48	13	6

His transactions during May were as follow :---

D

May	1.	Sold Richard Wilson :	£	8.	d.	
		120 lbs, coffee at 1s 1d - 6 10 0				
			18	7	6	
22	2.	Bill payable due to-day paid by the Bank of Scotland				
,,		and debited to his (Walter Thomson's) account	60	0	0	
,,	,,	James Forsyth's acceptance, due 20th current, dis- counted with Bank of Scotland, proceeds credited				
		to his (Walter Thomson's) account	99		0	
		Discount charged by Bank	- 0	5	0	
,,	5.					
		1,500 lbs. tea at 1s 2 <sup>1</sup> / <sub>2</sub> d.	90	12	6	
,,	7.	Drew from Bank and remitted Bruce and Livingstone	100	~	0	
	0	to account by draft	100	0	0	
3.9	8.	Sold to James Forsyth, 200 lbs. tea at 1s 8 <sup>1</sup> / <sub>2</sub> d Sold to William Temple, 100 lbs. coffee at 1s 0 <sup>1</sup> / <sub>2</sub> d -	17	1	8	
,,	10. 12.	Purchased from Robert Purdie, 2,000 lbs coffee at 10d	83	4	8	
,,	12.	Sold to William Temple :	00	0	0	
,,,	10.	1.000 lbs. coffee at 18 04d £52 1 8				
		500 lbs, tea at 1s 85d - 42 14 2				
			94	15	10	
.,	14.	Received from William Temple to account and lodged				
,,		in Bank · · · · · · · · · · · ·	50	0	0	
,,	16.	Received from Richard Wilson (in cash)	53	10	0	
		Discount allowed to him	2		6	
	22	Lodged in Bank	60	0	0	
,,	17.	Paid Robert Purdie by cheque	79	3	4	
22	,,	Discount allowed by him -	4	3	4	
,,	19.	Purchased from Robert Purdie, 500 lbs coffee at 10d	20	16	8	
,,	20.	James Forsyth's bill due to-day returned dishonoured				
		and debited by Bank to Walter Thomson's account,	100	10	4	
		with charges 10s 4d · · · · · · · · · · · · · · · · · ·	100	10	4	
,,,	31.	Paid salaries for month (in cash)		-0	0	
>>	17	Paid sundry charges for month (in cash)	5	0	ŏ	
,,	, ,	raid sundry charges for month (in cash) -	0	0	0	

VALUE.

The debt due by James Forsyth is considered worth only 17s. 6d. per  $\pounds$ ; 2s. 6d. per  $\pounds$  is therefore to be written off as irrecoverable at 31st May.

 $\pounds 5$  is due by Walter Thomson at 31st May for one month's rent, and is to be allowed for.

The stocks on hand at 31st May are as follow :---

Tea	 	 	£750
Coffee	 1	 	£655

Open Ledger accounts for the balances at 1st May, 1902. It is unnecessary to make Journal entries for them. They may be entered in the Ledger as if brought down from the previous month.

Record the transactions in :---

A Cash Book ;
An Invoice (or goods bought) Book ;
A Day (or goods sold) Book ;
A Journal.

Post from these books to the Ledger. When the Ledger is completed frame a Profit and Loss Account for the month. The transfers thereto from other Ledger Accounts must be made by Journal Entries.

68. 13.

55.

Frame a Balance Sheet as at 31st May 1902.

The entries should be posted direct to the Ledger from the Cash, Invoice, and Day Books. The only entries which should be made in the Journal are those for transactions which cannot be suitably recorded in these books, and closing entries, &c.

## COMMERCIAL ARITHMETIC .- FIRST PAPER.

Thursday, 19th June. - 2 P.M. to 2.30 P.M.

This paper will be taken up at the end of *half-an-hour*, when the other paper will be given out.

The sums are not to be copied out, and all the calculations required are to be performed mentally.

More importance will be attached to accuracy than to quickness.

13.

6

VALUE. 1. Add the following sums vertically and horizontally and find the grand total.

£ 207	s. 14	d. 3	£ 321	s. 15	d. 10	£ 28	s. 17	d. 9	£ 631	s. 5	d. 7	£ 520	s. 0	d. 6	£ 500	s. 15	d. 6	£ s. d.
512	9	9	719	4	7	371	7	3	72	16	8	413	12	5	142	3	4	the cards and
176	10	41	445	13	8	414	13	$6^{3}_{4}$	114	14	11	240	5	$7\frac{1}{2}$	97	10	31/2	in Equ
527	17	6	873	9	2	801	5	4	138	3	2	17	18	9	370	18	9	
389	7	91	96	19	81	990	18	01	501	0	9	125	3	49	412	17	73	

2. Write down the values of-

	- huminate 2 - 1
47,165,302 - 17,854,667	
£10,417 15s. $3\frac{1}{2}d$ . – £9,923 4s. $10\frac{3}{4}d$	annual W
$571,275 - 25 \dots \dots \dots \dots \dots$	
4,389 × 125	
$\frac{1}{2} + \frac{3}{4} + \frac{5}{8} + \frac{7}{16} \dots$ intersection denotes	a reactio acament
$3.725 + .0065 + 41.85 \dots \dots \dots \dots$	
Express £1.775 in £ s. d	
"£3·60625 "	
,, 15s. 9d. as a decimal of $\pounds 1$	

COMMERCIAL ARITHMETIC .- SECOND PAPER.

Thursday, 19th June.-2.30 P.M. to 4 P.M.

All the work must be shown, and such explanation added as is required to indicate the methods adopted.

Additional marks will be given for neatness, arrangement, and style.

1. Find to the nearest penny the cost of 11 tons 3 cwts. 2 qrs. 16 lbs. at  $\pounds$ 12 16s. 6d. per ton. 6.

2. (1) Add  $1\frac{1}{15}$ ,  $2\frac{2}{15}$ ,  $3\frac{3}{4}$ , and divide their sum by the difference between  $4\frac{1}{2}$  and  $5\frac{1}{3}$ .

(2) Simplify 2.879 of £1 + 9.06 of 1s. + .24 of 1d.

3. Name one principal coin in use in each of the following countries:-Germany, France, India, United States of America; and express £100 as nearly as you can in terms of each of these coins. 8.

YALUE. 4. The average profit per annum made in a business during 3 years was £5,744, but during the first two of these years the average
profit was £4,843, while during the last two it was £6,417; find each separate year's profit.

7. 5. A map is on the scale of 6 inches to a lineal mile; how many acres does a square inch represent ?

 Express in tons and vulgar fraction of a ton the weight of the g, lead required to cover 294 square yards with lead one-eighth of an inch thick, a cubic foot of lead weighing 710 lbs.

7. A sum of money, lent at  $4\frac{1}{2}$  per cent. interest, after deduction of income tax at 1s. 3d. in £1, yields £71 14s.  $4\frac{1}{2}d$ . annually ; find the sum lent.

8. The traffic receipts of a railway in 1900 were £1,987,000, and its expenses were £1,144,000. In 1901 it was found that the receipts had fallen  $\frac{2}{5}$  per cent., while the expenses had risen  $\frac{1}{2}$  per cent; find to 2 decimal places by what percentage of itself the profit in 1900 exceeded the profit in 1901.

9. Assuming that a cubic centimetre of water weighs a gramme, and that a foot is 305 metres and a kilogramme is 2:205 lb., find the weight of a cubic foot of water in ounces avoirdupois, correct to the nearest ounce, without unnecessary work.

8,

10.

10