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EDUCATIONAL ASSESSMENT AND EXAMINATIONS SERVICE (EAES)
ETHIOPIAN SECONDARY SCHOOL LEAVING CERTIFICATE EXAMINATION (ESSLCE)
SCHOLASTIC APTITUDE TEST (SAT)

HAMLIE 2015 E.C/ JULY 2023 G.C

SUBJECT CODE: 03 **BOOKLET CODE_432**
TIME ALLOWED: 2 HOURS

GENERAL INSTRUCTIONS

THIS BOOKLET CONTAINS *SCHOLASTIC APTITUDE TEST* SUBJECT. THE CODE FOR THIS SUBJECT IS *03* AND THE CODE FOR THIS PARTICULAR BOOKLET IS *409*. PLEASE COPY THESE CODES ON YOUR ANSWER SHEET WHERE IT READS *SUBJECT CODE* AND *BOOKLET CODE*.

THE TEST HAS *TWO MAIN SECTIONS* WITH A TOTAL OF *60* ITEMS. SECTION ONE CONTAINS *VERBAL REASONING* AND SECTION TWO CONTAINS *QUANTITATIVE REASONING*. VISUALLY IMPAIRED CANDIDATES ARE REQUIRED TO ATTEMPT *VERBAL REASONING SECTION ONLY*. ALL OTHER CANDIDATES ARE REQUIRED TO ATTEMPT *BOTH SECTIONS*.

EACH SECTION CONTAINS *MULTIPLE CHOICE ITEMS* CONSISTING OF FOUR POSSIBLE ANSWERS. IN EACH CASE, SELECT THE BEST ANSWER AND *BLACKEN* THE LETTER OF YOUR CHOICE ON THE SEPARATE ANSWER SHEET PROVIDED. FOLLOW THE INSTRUCTIONS ON THE ANSWER SHEET AND THE EXAMINATION PAPER CAREFULLY. USE ONLY *PENCIL* TO MARK YOUR ANSWERS. YOUR ANSWER MARK SHOULD BE *HEAVY* AND *DARK*, COVERING THE ANSWER SPACE COMPLETELY. PLEASE ERASE ALL UNNECESSARY MARKS COMPLETELY INCLUDING ANSWERS YOU HAVE CHANGED FROM YOUR ANSWER SHEET.

VISUALLY IMPAIRED CANDIDATES ARE ALLOWED TO WORK FOR *ONE HOUR* ONLY. THE OTHER CANDIDATES ARE ALLOWED TO WORK THE EXAM FOR *TWO HOURS.* WHEN TIME IS CALLED, YOU MUST IMMEDIATELY STOP WORKING, PUT YOUR PENCIL DOWN AND WAIT FOR FURTHER INSTRUCTIONS.

ANY FORM OF CHEATING OR AN ATTEMPT TO CHEAT IN THE EXAMINATION WILL RESULT IN AN AUTOMATIC DISMISSAL FROM THE EXAMINATION HALL AND CANCELLATION OF YOUR SCORE.

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SCHOLASTIC APTITUDE TEST
Hamlie, 2015 E.C/July, 2023 G.C

SUBJECT CODE: 03
Number of Items: 60

BOOKLET CODE: 432
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Section One: Verbal Reasoning (Questions 1 – 35)

Direction: This section contains **35** verbal reasoning items altogether. It is subdivided into analogy, synonyms, antonyms, classifications, reading comprehension, analytical and logical reasoning and sentence comprehension. Each subsection is followed by its specific direction.

Antonyms

Direction: For questions **1 - 3**, choose the letter of the word or phrase that is nearly opposite in meaning to the words in bold type.

1. **Pessimism**
   A. Sorrow
   B. Optimism
   C. Arrogance
   D. Despair

2. **Polygamy**
   A. Monogamy
   B. Interference
   C. Recovery
   D. Detour

3. **Prospect**
   A. Retrospect
   B. Traditional
   C. Ideal
   D. Modernist

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Synonyms

Direction: For questions **4 - 7**, choose the letter of the word or phrase that is nearly similar in meaning to the words in bold type.

4. The **diffusion** of the virus had reached an epidemic proportion.
   A. dissemination
   B. spread
   C. diagnosis
   D. vulnerability

5. The electric poles were **impregnated** with chemical solutions for durability.
   A. saturated
   B. varnished
   C. erected
   D. washed

6. The sense of **animosity** between the rival groups was resolved peacefully.
   A. grievance
   B. hatred
   C. exposure
   D. revenge

7. The practice of tax **evasion** is harmful to the development of a nation.
   A. avoidance
   B. endorsement
   C. conviction
   D. resilience

Analogy

Direction: For questions **8 - 12**, read the pair of words in **block capitalization,** which are followed by four alternatives. Choose the letter which best expresses a relationship similar to that of the original and **blacken** the letter of your choice on the separate answer sheet provided.

8. GUNPOWDER: EXPLOSION; Volcano: _____
   A. Landslide
   B. Concentration
   C. Eruption
   D. Pasteurization

9. CARAVAN: DESERT; Perch: _____
   A. Aquatic
   B. Terrestorial
   C. Aerial
   D. Tropical

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10. HISTORY: CHRONOLOGICAL; Topography: _____
    A. Temperature C. Climate
    B. Spatial D. Travel

11. DREAM: SHATTERED; Promises_____
    A. Broken C. Cancelled
    B. Denied D. fulfilled

12. BROADCAST : VERBAL; Paralanguage:_____
    A. Audio-visual C. Body
    B. Imagery D. Multimodal

Reading Comprehension

Direction: Read the passages carefully and answer questions **13 - 22**. Each question is based on the information stated or implied in the passage. Then **blacken** the letter of your choice on the separate answer sheet provided.

Reading Passage I

Instruction: For questions **13 - 17**, read the following text carefully and answer the question that follow it based on the information therein and **blacken** the letter of your choice on the separate answer sheet provided.

1 Historically, British adventurism, expansionism, as well as the slave trade and Christian evangelism led to the global spread of the English language and its diverse forms. It was commanded to become the medium of international communication as a legacy of the British colonialism and was chauvinistically described as 'a window on the world', if not the chosen tongue.

2 As the influence of the British Empire **recedes**, however, English speakers around the globe are now left to their discretion. In the past, there was a great fascination among Indians for 'pure language'. Several generations of Head Masters have spent **their** lives instilling in the minds of students that speaking the 'Queen's English' was the ultimate in educational attainment.

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Nowadays, English is becoming more and more **monolithic**. In this scenario, the international standard variety of English will be the common factor that allows for mutual intelligibility among its Afro-Asian varieties.

13. The spread of English across the globe is attributed to _____.
    A. WWII
    B. British colonialism
    C. the Will of Queen Elizabeth
    D. WWI

14. What was the misconception of Indian Head Masters about the end goal of education?
    A. Linguistic hybridity
    B. Mastering the 'Queen's English'
    C. Reading Shakespeare
    D. A preference for the American English

15. The word **their** in paragraph 2 refers to _____.
    A. native speakers
    B. Indian head Masters
    C. English speakers worldwide
    D. colonial masters

16. The word **recedes** in paragraph 2, could interchangeably be used with _____.
    A. outshines
    B. shrinks
    C. predominates
    D. outnumbers

17. The word ***monolithic*** in paragraph 2 is synonymous with _____.
    A. hybrid
    B. multilingual
    C. unitary
    D. pure

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Reading Passage II

Instruction: Questions **18 - 22** deal with the restoration of contextual vocabulary which have been randomly omitted from the text. Choose the most appropriate word from the table below and complete the numbered spaces. Then, **blacken** the letter of your choice on the separate answer sheet provided.

anonymous	exposes	homogenous	cosmopolitan	specialization

1 One of the major decisions which preparatory school leavers face is the dilemma of joining a large university or a small college. The large university provides a wide range of academic departments as well as numerous courses within such departments. The small college, however, generally offers a limited number of courses and (1._____) opportunities with a better student-faculty ratio, thus permitting individualized attention to students.

2 Because of its large, (2._____) student body (often exceeding 20,000), the university (3._____) its students to various cultural, social, and extracurricular activities. On the other hand, the (4._____) student body of the small college affords greater opportunities for direct

involvement and individual participation in such activities and intercultural clubs. All the more, the university closely approximates the real world since it provides a relaxed, impersonal and sometimes (5._____) existence.

3 In contrast, the intimate atmosphere of the small college allows the students three-to-four years of structured living in which they contemplate and prepare for the real world. In making their choice among the institutions of higher education, the students must, therefore, consider many subjective and objective factors before joining anyone of these centres of timeless fellowship.

18. The first blank space could be completed with one of the following words.
A. homogenous
B. exposes
C. specialization
D. cosmopolitan

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19. The word _____ is more appropriate to complete the second blank space.
    A. anonymous
    B. cosmopolitan
    C. homogenous
    D. specialization

20. One of the following words could be used in the third blank space.
    A. homogenous
    B. exposes
    C. cosmopolitan
    D. specialization

21. The word_____ is more appropriate for completing the fourth blank space.
    A. exposes
    B. homogenous
    C. cosmopolitan
    D. anonymous

22. The word _____ could be used in the fifth blank space.
    A. specialization
    B. anonymous
    C. exposes
    D. homogenous

Analytical and Logical Reasoning

Directions: The following statements are followed by two or more conclusions. numbered I and II. You are supposed to assume everything in the statement to be true. Then, consider the suggested conclusions and decide which of them logically follows from the premise beyond a reasonable doubt.

23. **Statement**: The vacancy announcement stipulates that all applicants are required to produce a medical certificate.

    Conclusions I. Any candidate who tests positive will be rejected.
    II. Medical certificate is not mandatory for application or employment.
    III. A candidate who produces a forged medical certificate would be entertained.

Which conclusion could be reasonably drawn from the premise?
    A. Only conclusion II
    B. Only conclusion I
    C. Both conclusion I and II
    D. Both conclusion II and III

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24. **Statement**: In many undemocratic countries, minority groups were marginalized for one reason or another.

Conclusions: I. In such countries, individual rights were more important than group rights.

II. In such countries, group rights were more important than individual rights.

III. In such countries, citizens could be marginalized on racial and religious grounds.

IV. Collective identity was more significant than individual identity.

Which one of the conclusions is more logical?

A. Conclusion I
B. Conclusion II
C. Conclusions II and III
D. Conclusion II,III and IV

25. **Statement**: Many investment projects contribute to environmental pollution unless they are closely monitored by regulatory agencies.

Conclusion: I. The development policies of certain countries is exemplary.

II. Environmental impact should not be undermined in the implementation of projects.

III. Regulatory agencies are responsible for monitoring the implementation of modalities.

Which one of the conclusions is implied by the head sentence?

A. Conclusion I
B. Conclusion II
C. Conclusions II and III
D. Conclusion I and II

26. The migration of birds from one part of the world to another is attributed to impulses of weather. They flock from Polar Regions to the tropical zone or vice-versa following seasonal changes. The choice of their destination depends on whether or not these migratory birds are cold-blooded.

The assumption of the above argument revolves around_____.

A. the seasonal readjustment of cold-blooded birds
B. the bipolar migration of all birds
C. the survival of birds under the strains of climate
D. the difference between polar and tropical birds

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27. The traditional view about the predestination of poverty has been challenged on scientific grounds. With the advent of science and technology, the stratification of the human society into the poor and the rich is based on man-made problems rather than Divine intervention. In order to ensure equality and equitability of natural resources, modern governments should adopt and enforce the pillars of good governance.
This writer proposes that
A. the fate of the poor is irreversible.
B. the fortune and the misfortune of humanity is predestined.
C. poverty is man-made and can be resolved by humans themselves.
D. the traditional view of pessimism is still persistent.

28. **Statement:** All public and private schools were closed down during the outburst of the Covid-19 pandemic, which also led to socio-economic crisis.
Conclusions: I. The spread of Covid-19 was caused by the closure of schools.
II. The spread of Covid-19 had forced the closure of schools apart from impacting the socio-economic sector.
III. The outbreak of this virus had nothing to do with the social service sector.
The writer seems to underline the consequences of Covid -19 as stated in
A. conclusion I.
B. conclusion II.
C. conclusion III.
D. Not given

29. The Ministry of Inland Revenue and Customs praised the loyal tax payers for discharging their duty.
What can we deduce from this premise?
A. Tax avoidance has completely been put under control.
B. Income generation and business are not interrelated.
C. There are duty-bound tax payers who support the development endeavours.
D. Deduction of value added taxes on the price of goods is fashionable.

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30. **Statement:** The outbreak of malaria in the tropical zones has posed a threat to public health and the GDP of malarial countries

Conclusions: I. Tropical countries should prioritize the eradication of malaria for humanitarian and economic reasons.

II. The death of people from malaria does not affect the GDP of a country.

III. Malaria should not be the focal point of research.

Which one of the above conclusions could be drawn from the premise?

A. Conclusion II
B. Conclusion I
C. Conclusion III
D. Not given

Classification of Items/Phenomena

Direction: For questions **31 - 35,** choose the word which cannot be categorized under the same group or category and **blacken** the letter of your choice on the separate answer sheet provided.

31. A. Humidity
B. Altitude
C. Temperature
D. Calendar

32. A. Regicide
B. Genocide
C. Suicide
D. Patricide

33. A. Referendum
B. Consensus
C. Photosynthesis
D. Universal suffrage

34. A. Sword
B. Bracelet
C. Machine gun
D. Rifle

35. A. Chronicle
B. Biography
C. Diary
D. Civil code

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SECTION TWO: Quantitative Reasoning (Questions 36-60)

DIRECTIONS: Solve each of the problems given in questions **36-60** below and select the best answer from the given alternatives. Then, **blacken** the letter of your choice on the separate answer sheet provided.

36. Which one of the following is true for every natural number n?

A. $(n+1)^3 \geq n^3 + 1$
B. $6^n - 1 \leq 625$
C. $(n+1)^2 \leq n^2 - 2n + 1$
D. $n^2 \geq n!$

Directions:-Questions **37 - 41** are based on the data given in the tables below. Answer each of the questions based on the given data.

Student enrollment at in a college
Distribution of enrollment by class and gender

Total enrollment; 4,800

Class	Male	Female	Total
Freshman(1st Year)	1,000	800	1,800
Sophomore(2nd Year)	750	450	1,200
Junior(3rd Year)	620	380	1,000
Senior(4th Year)	480	320	800
Total	2,850	1,950	4,800

Percent of total enrollment majoring in selected academic areas

Area	Percent
Social Science	30 %
Natural Science	50 %
Other Science	20 %

37. What is the ratio of the number of male freshman social science students to the number of female sophomore natural science students?

A. 9 to 20
B. 4 to 3
C. 20 to 9
D. 3 to 4

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38. If the total enrollment is 20 percent greater than it was five years ago, what was the total enrollment five years ago?

A. 3,600 C. 3,000
B. 4,600 D. 4,000

39. How many students are either juniors or males or both?

A. 1,000 C. 620
B. 2,850 D. 3,230

40. In which enrollment do the female students have the highest percentage?

A. Freshman C. Sophomore
B. Junior D. Senior

41. What is the number of male junior social science students?

A. 310 C. 186
B. 620 D. 500

42. If your total income is 12,000 Birr per month and you can't spend more than 60% on housing, what is the maximum amount of your total income that can be spent on housing?

A. 9,000 Birr C. 6,000 Birr
B. 5,600 Birr D. 7,200 Birr

43. Suppose that the perimeter of a rectangular farm is 80 meter. If the farm is y meter long and x meter wide then which one of the following functions of x will model the total area of the farm in square meter?

A. $f(x) = -x^2 + 40x$ C. $h(x) = -2x^2 + 80x$
B. $g(x) = x^2 - 40x$ D. $k(x) = 2x^2 + 80x$

44. Which one of the following is the coefficient of x^3y in the expansion of the algebraic expression $(x + y)^4$?

A. 2 C. 4
B. 6 D. 3

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45 Which one of the following is the degree of the polynomial function $f(x) = (2x + 7)^5(3x - 1)^2$?

A. 6 C. 7
B. 5 D. 2

46. Which one of the following is necessarily true about any real numbers x and y?

A. $(x - y)^2 \leq (x + y)^2$ C. $|x + y| \geq |x - y|$
B. $(x + y)^2 \leq (x - y)^2$ D. $|x + y| = |-x - y|$

47. Suppose $\{a_n\}_{n=1}^{\infty}$ is an arithmetic sequence and $a_5 + a_8 = 41$ and $a_8 - a_5 = 9$, then which one of the following is the sequence?

A. 2, 5, 8, 11, 14,... C. 1, 4, 7, 10, 13,...
B. 4, 7, 10, 13, 16,... D. 3, 6, 9, 12, 15,...

48. Which one of the following is the 100^{th} term of the geometric sequence $\{G_n\}_{n=1}^{\infty}$, where $G_n + G_{n-1} = -1$ and $G_3 = 5$?

A. 1 C. 5
B. -5 D. -1

49. If the n^{th}-term of the arithmetic sequence $\{a_n\}_{n=1}^{\infty}$ is given by $a_n = 3n - 2$, then which one of the following is the sum of the first seven terms of the sequence?

A. 70 C. 72
B. 19 D. 28

50. Which one of the following is the sum of the first six terms of the geometric sequence $\left\{3\left(\frac{1}{2}\right)^{n-1}\right\}_{n=1}^{\infty}$?

A. $\frac{93}{16}$ C. $\frac{45}{8}$
B. $\frac{189}{32}$ D. $\frac{381}{64}$

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51. Consider the system of linear equations $x - 2y = 3$ and $-3x + 2y = 1$. Then which one of the following is true about the system?
    A. The system has no solution.
    B. The system has infinite solutions.
    C. The system has two different solutions.
    D. The system has unique solution.

52. Suppose you want to select a 3-person committee from a group of 7 teachers. How many ways are there to do this?
    A. 210
    B. 35
    C. 60
    D. 120

53. A box contains 12 pieces of paper, each of which has the name of one of the 12 students in a class consisting of 7 male and 5 female students, all with different names. What is the probability of a randomly selected piece of paper has a female student name?
    A. $\frac{5}{12}$
    B. $\frac{5}{7}$
    C. $\frac{7}{12}$
    D. $\frac{7}{5}$

54. According to a surveys in an area, 25% of the trees planted did not grow in the year 2011 E.C. and 35% of the trees planted did not grow in the year 2014 E.C..What was the percentage increase in the fraction of trees planted that did not grow from the year 2011 E.C. to the year 2014 E.C.?
    A. 60%
    B. 40%.
    C. 50%.
    D. 30%

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55. A lake was 30m deep. Two months later, its depth decreased by 20%. If the depth of the lake increased from where it was after two months by 15% in three months' time, what was the cumulative percentage change in the depth of the lake during the five months?

A. 6% C. 8%.
B. 5% D. 10%

56. Which one of the following is the solution set of the system of linear equations given by $x + y = 1$ and $3x - y = 7$?

A. $\{(-1, 2)\}$ C. $\{(2, 1)\}$
B. $\{(2, -1)\}$ D. $\{(-2, 1)\}$

57. Which one of the following ordered pair of numbers is **not** in the solution of the system of linear inequalities $x + y \geq 1$ and $x - 2y \leq 2$?

A. $(1, 2)$ C. $(-1, 2)$
B. $(2, 1)$ D. $(2, -1)$

58. Given the system of linear inequalities $\begin{cases} ax + by \geq c \\ ax + by \leq c \end{cases}$ for arbitrary constants a,b and c in $\mathbb{R}$ with $c \neq 0$, then which one of the following is true about the solution set of the system?

A. $\{(x, y): ax + by \geq c\}$ C. $\{(x, y): ax + by = c\}$
B. $\{(x, y): ax + by \leq c\}$ D. $\{(x, y): ax + by \neq c\}$

59. A woman spent one fifth of her salary for clothing, two fifth her salary for different bills and 100 Birr for her transport. After covering all these costs she is left with 4,500 Birr. What was the salary she received?

A. 11,500 Birr C. 13,500 Birr
B. 12,500 Birr D. 10,500 Birr

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60. During the sunshine, an upright building 16 meters tall is casting a shadow of 12 meters long. At the same time, a nearby upright building is casting a shadow of 18 meters long. If the lengths of the shadows are proportional to the heights of the buildings, what is the height, in meter, of the taller building?

A. 32
B. 17
C. 36
D. 24

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The End

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