EDUCATIONAL ASSESSMENT AND EXAMINATIONS SERVICE (EAES)
ETHIOPIAN SECONDARY SCHOOL LEAVING CERTIFICATE EXAMINATION (ESSLCE)
Hamlie, 2016 E.C /July, 2024 G.C

SUBJECT: SAT **BOOKLET CODE: 088**
SUBJECT CODE: 03 **TIME ALLOWED: 2 HOURS**

GENERAL DIRECTIONS:

I. FOLLOW THE FOLLOWING RULES AND REGULATIONS IN DOING THE EXAMINATION:

- FEED THE **SUBJECT NAME**, **SUBJECT CODE** AND **BOOKLET CODE** GIVEN ABOVE ON THE SEPARATE ANSWER SHEET PROVIDED
- SELECT ONLY THE **CORRECT** ANSWER FOR EACH QUESTIONS
- USE ONLY **PENCIL** TO MARK YOUR ANSWERS
- YOUR **MARK** SHOULD BE **HEAVY** AND **DARK**
- **BLACKEN** ONLY THE LETTER OF YOUR CHOICE IN LINE WITH THE BOX ON THE SEPARATE ANSWER SHEET PROVIDED
- **ERASE** ALL UNNECESSARY MARKS COMPLETELY
- ANY FORM OF **CHEATING** IS **PROHIBITED** AND RESULT IN CANCELLATION OF YOUR SCORE
- YOU MUST IMMEDIATELY **STOP WORKING** WHEN TIME IS OVER
- FOLLOW **FURTHER INSTRUCTIONS** ON THE BOOKLET FOR EACH QUESTION

II. ATTENTION!

MAKE SURE THAT YOU HAVE WRITTEN ALL THE REQUIRED INFORMATION ON THE SEPARATE ANSWER SHEET CORRECTLY BEFORE YOU RETURN IT.

DO NOT TURN THIS PAGE OVER UNTIL YOU ARE TOLD TO DO SO.

EAES WISH YOU ALL THE BEST!

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1. What do you think was the writer's position at the time?
   A. a college student
   B. a university president
   C. a college teacher
   D. a high school student

2. The writer believes that _____
   A. being a leader is what awaits everyone in their future life.
   B. leadership is not a skill set aside for the select others.
   C. being a follower is not useful in one's career.
   D. attending college should help one become a leader.

3. Which of the following features is **NOT** useful in the writer's career development?
   A. teambuilding
   B. self-confidence
   C. attending club meetings skills
   D. speaking

4. Which of the following is synonymous with the word **intimidating** in paragraph 2, line 2?
   A. frustrating
   B. annoying
   C. frightening
   D. disappointing

5. What did the writer want to be in his future?
   A. a public speaker
   B. a leader in any field
   C. a public officer
   D. a political activist

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Antonyms

Instruction: Questions **6-8** consist of words in capital letters followed by four options. Choose the word that is **most nearly opposite** in meaning to the word in capital letters. Then, **blacken** the letter of your choice on the separate answer sheet provided.

6. DESTITUTE
   A. wealthy
   B. prostitute
   C. generous
   D. healthy

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7. NIECE
   A. cousin
   B. nephew
   C. nice
   D. aunt

8. REFUTE
   A. rebut
   B. disprove
   C. confirm
   D. deny

Reading Comprehension

Instruction: Read the following passages carefully and answer questions **9-13**. 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.

Passage II

New situations always make me a bit nervous, and my first swimming class was no exception. After I changed into my bathing suit in the locker room, I stood **timidly** by the side of the pool waiting for the teacher and the other students to show up. After a couple of minutes the teacher came over. She smiled and introduced herself, and two more students joined us. Although they were both older than me, they didn't seem to be embarrassed about not knowing how to swim. I began to feel more at ease.

We got into the pool, and teacher had us put on brightly colored water wings to help us stay afloat. One of the other students, May, had already taken the beginning class once before, so she took a kickboard and went splashing off by herself. The other student, Jerry, and I were told to hold on to the side of the pool and shown how to kick for the breaststroke. One by one, the teacher had us hold on to a kickboard while she pulled it through the water, and **we** kicked.

Source: Jonan Donaldson Academic WritingJanuary 12th, 2010

9. Who do you equate the writer with in terms of learning pace?
   A. both students
   B. Jerry
   C. the teacher
   D. May

10. What does the pronoun **we** in paragraph 2, line 6 refer to?
    A. the writer and May
    B. the teacher and all the students
    C. the teacher and the writer
    D. the writer and Jerry

11. The word **timidly** in paragraph 1, line 2 is synonymous with:
    A. nervously
    B. angrily
    C. timely
    D. bravely

12. The writer became relaxed when _____.
    A. she saw the others unashamed of being unable to swim
    B. she was going to start her first swimming class
    C. the teacher came in and introduced herself
    D. other students joined the swimming lesson

13. What is it that makes the writer frightened?
    A. learning with others
    B. standing in her bathing suit
    C. learning to swim
    D. first time things

Analytical and Logical Reasoning Questions

Instruction: Questions **14-21** deal with logical and analytical reasoning. Read the given set of conditions and assumptions for each question. Choose the answer that you think is most appropriate among the given alternatives. Then, **blacken** the letter of your choice on the separate answer sheet provided.

14. **Father**: How was your exam yesterday?
    Son: I got zero out of twenty?
    Father: Bravo!
    What can we conclude from this conversation between father and son?
    A. The father was sarcastic and disappointed with his son.
    B. The father was humorous and he rejoiced at his son's result.
    C. The son was happy with his result.
    D. The father was honestly pleased with his son.

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15. Standing at the top of the mountain, I could see below a grinding mill, a storehouse, a church and a mosque in a row. At the far end was the church with a towering cross, adjacent to the mill. At the other end was the mosque. Which of the following statements is **NOT** correct according to this information?
    A. The mosque was next to the storehouse.
    B. The church was next to the mill.
    C. The mosque was adjacent to the storehouse.
    D. The storehouse was adjacent to the mill.

16. An *assassinee* is an important person killed by someone; whereas, a *martyr* is any person killed because of their political beliefs. *Abbune* was killed on the cause of freedom; whereas, President *Saji* was shot dead in broad light. From this we can conclude that:
    A. When *Abbune* is an *assassinee*, *Saji* is a martyr.
    B. Both *Saji* and *Abbune* are *assassinees*.
    C. When Saji is an *assassinee*, Abbune is a martyr.
    D. Both *Saji* and *Abbune* are martyrs.

17. People who speak French can also speak English. Alex is French and Tom is American. To be an American, one should be able to speak English. Which of the following is, therefore, necessarily true?
    A. Tom speaks both French and English.
    B. Tom speaks English.
    C. Alex speaks French.
    D. Alex speaks both French and English.

18. In a pseudo language called *Vandu*, *dvt* means work. *gnafu* means drives. *gnafye* means drivers. *dvty* means worker. *gnafaa* means drove. What does *dvtye gnafaa* mean in *Vandu*?
    A. Worker drives.
    B. Drivers drove.
    C. Driver drives.
    D. Workers drove.

19. Based on the data in question 18, the past tense form of *work* in *Vandu* is:
    A. dvted
    B. dvtaa
    C. dvtu
    D. dvtya

20. Based on the data in question 18, if *kont* means girl, its plural form will be:
    A. konty
    B. konts
    C. kontye
    D. konte

21. Which of the following is a word in English formed from three consecutive letters?
    A. feed
    B. face
    C. bead
    D. bad

Sentence Completion

Instruction: The following sentences **22-26** are incomplete. Choose the word that best completes the meaning of the sentence contextually, and **blacken** the letter of your choice on the separate answer sheet provided.

22. Learning to swim was not easy for me, but in the end my ____; paid off.
    A. strength
    B. experience
    C. tolerance
    D. persistence

23. He was charged with carrying an offensive _____.
    A. thought
    B. weapon
    C. speech
    D. belief

24. I work a minimum of 35-hours a week to put myself through school without ____ to the temptation of a student loan.
    A. falling
    B. combating
    C. succumbing
    D. surviving

25. The skyscraper rose ____ at the center of the town. Every visitor loves to explore it.
    A. thickly
    B. brightly
    C. proudly
    D. highly

26. On bad days I even felt ____; I just wanted to kill myself.
    A. suicidal
    B. poisoned
    C. causal
    D. pleased

Synonyms

Instruction: Questions **27-30** consist of words printed in capital letters followed by four options. Choose the word that is **most nearly similar** in meaning to the word in capital letters. Then, **blacken** the letter of your choice on the separate answer sheet provided.

27. DISPENSE
    A. spoil
    B. distribute
    C. expend
    D. destroy

28. ERRAND
    A. rider
    B. passenger
    C. brand
    D. messenger

29. GRACEFUL
    A. dominant
    B. great
    C. grateful
    D. attractive

30. EQUIVOCALLY
    A. clearly
    B. uniquely
    C. ambiguously
    D. equally

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Analogy

Instruction: Answer questions **31-35** based on the pair that best expresses a relationship **similar** to that of the original or capitalized pair. Then, find the corresponding question number on the separate answer sheet, and **blacken** the letter of your choice.

31. CALCULATE: BALANCE; _____: paragraph.
    A. construct
    B. compose
    C. describe
    D. combine

32. AIRCRAFT: JET; _____: truck.
    A. train
    B. airbus
    C. vehicle
    D. taxi

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33. _____: soldier; GOWN: PHYSICIAN.
A. uniform
B. tent
C. gun
D. army

34. Remote: _____; WIDE: NARROW.
A. distant
B. control
C. television
D. accessible

35. CUP: COFFEE; bottle: _____.
A. beer
B. juice
C. tea
D. water

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Section Two: Quantitative Reasoning (Questions 36 – 60)

Directions: This section contains 25 quantitative reasoning items which consists of algebra, sequence, geometry, comparison of quantities probability and statistics altogether. Solve each of the problems given in question **36 – 60** according to their specific instruction and select the correct answer from the given alternatives. Then, **blacken** the letter of your choice on the separate answer sheet provided.

36. If -3, 0 and 1 are zeros of a polynomial function p(x) of degree 3, then which one of the following is true about p(x)?
    A. $p(-1) = 0$.
    B. x is a factor of p(x).
    C. $x - 3$ is a factor of p(x).
    D. $p(x) = x^3 + 3x$.

37. Which one of the following is equal to $\sum_{n=1}^{48} \frac{5}{(n+1)(n+2)}$?
    A. 1.5
    B. 1.2
    C. 2.4
    D. 2.5

38. If $\left(\sqrt[3]{x}\right)^{-\frac{1}{3}} = 2^{-1}$, then which one of the following is the value of x?
    A. 512
    B. $\frac{1}{512}$
    C. -512
    D. $-\frac{1}{512}$

39. What is a possible value of t in the sequence 100, 98, 94, 86, t, 38, ...?
    A. 78
    B. 70
    C. 82
    D. 54

40. Let $\{a_n\}$ be a sequence defined by $a_1 = 3$, $a_2 = 2$ and for each $n \geq 2$, $a_{n+1} = na_{n-1} - a_n$. Which one of the following is equal to a_6?
    A. 14
    B. 56
    C. -14
    D. -4

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41. How many different arrangements of the digits of the number "234523" are there?
   A. 180 C. 360
   B. 720 D. 256

42. In which quadrant does the terminal side of angle -710° belong?
   A. Second C. First
   B. Fourth D. Third

43. If two six faced fair dice are rolled, what is the probability of getting a pair of numbers whose sum is either 6 or 12?
   A. $\frac{5}{36}$ C. $\frac{1}{6}$
   B. $\frac{2}{9}$ D. $\frac{7}{36}$

44. If today is Monday, then what is the day after 57 days starting from today?
   A. Wednesday C. Monday
   B. Sunday D. Tuesday

45. A box contains 4 black, 5 white and 3 red balls of the same size. If a ball is drawn at random, what is the probability that the ball is neither black nor red?
   A. $\frac{5}{12}$ C. $\frac{7}{12}$
   B. $\frac{2}{3}$ D. $\frac{3}{4}$

46. A person deposited money in a microfinance that pays a simple interest rate of 12% per year. After three years, he/she received a total amount of Birr 163,200. Which one of the following was the initial amount in Birr, deposited by the person?
   A. 140,000 C. 100,000
   B. 120,000 D. 280,000

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47. What is the value of k, if $\sum_{n=1}^{\infty} 5^{nk} = \frac{1}{4}$?

A. 2
B. -2
C. 1
D. -1

48. A person wants to divide Birr 4,600 for his three children in the ratio of $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$. What are the shares in Birr of each children from the smallest to the largest amount?

A. 1,200, 1,400 and 2,000
B. 800, 1,600 and 2,200
C. 1,200, 1,600 and 1,800
D. 1,000, 1,600 and 2,000

Instruction: For Questions **49** and **50,** compare Quantities **A** and **B** using the given information and choose the correct answer from the given alternatives that explains the relationship.

49 Let x and y be real numbers such that $x > y$.

Quantity A	Quantity B
$x^2 + y^2$	2xy

A. Quantity B is greater than quantity A.
B. The relationship cannot be determined.
C. Quantity A is greater than quantity B.
D. The two quantities are equal.

50.

Quantity A	Quantity B
20% of 80	30% of 60

A. Quantity **B** is greater than quantity **A**.
B. The relationship cannot be determined.
C. Quantity **A** is greater than quantity **B**.
D. The two quantities are equal.

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51. The water bill for a past month of a certain family was Birr 200. The bill consisted of a fixed charge of Birr 20 plus a charge of Birr 2 per cubic meter for the water used in the month. How many cubic meters of water did the family consumed for the past month?
A. 90 C. 110
B. 180 D. 100

52. Which of the following pairs of numbers are twin primes?
A. 3 and 11 C. 2 and 3
B. 41 and 43 D. 19 and 23

53. Which of the following is true about $x^2+3x-4=0$?
A. It has only one solution. C. It has no solution.
B. It has no real solution. D. It has two solutions.

54. At a certain fruit shop, one mango is being sold for Birr 10 and one banana is being sold for Birr 5. If 30 fruits of mangos and bananas were purchased from the fruit shop for Birr 200, how many of the fruits were bananas?
A. 25 C. 10
B. 15 D. 20

55. A lady wants to surprise her boyfriend on his birthday by inviting him and their friends a buffet dinner at a hotel. The maximum budget for the dinner was Birr 8,000. The hotel charges Birr 300 per person for the buffet including tax. If the lady wants to give a tip of Birr 50, then which of the following models the situation assuming that x is the total number of people to be invited for the dinner?
A. $300x+50 \geq 8000$ C. $300x+50 \leq 8000$
B. $300x-50 \geq 8000$ D. $300x-50 \leq 8000$

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59. Which of the following is true about the data given in the histogram?
   A. The range of the given data is 20.
   B. Most students scored below 50%.
   C. 35 students scored at least 15 marks.
   D. 20 students scored at least 20 marks.

60. Which one of the following is the total number of students considered in the given data?
   A. 60 C. 45
   B. 55 D. 35

THE END

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