

ADDIS ABABA CITY ADMINISTRATION

**NEFAS SILK LAFTO SUBCITY ADMINISTRATION EDUCATIONAL
OFFICE SCHOLARSTIC APPTITUDE TEST (SAT) MODEL EXAMINATION
FOR GRADE 12 GINBOT 2012 /MAY 2020**

GENERAL DIRECTION

THIS BOOKLET CONTAINS **SCHOLARSTIC APPTITUDE TEST**.THE TEST HAS TWO MAIN SECTIONS WITH A TOTAL OF **60** ITEMS. SECTION ONE CONTAINS VERBAL REASONING AND SECTION TWO CONTAINS A 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 ANSWER CHOICES.IN EACH CASE, SELECT THE BEST ANSWER AND BLACKEN THE LETTER OF YOUR CHOICE ON THE SEPARATE ANSWER SHEET PROVIDED.

VISUALLY IMPAIRED CANDIDATES ARE ALLOWED TO WORK FOR **ONE HOUR** ONLY. THE OTHER CANDIDATES ARE ALLOWED TO WORK **TWO HOURS** ON THE TEST.

ANY FORM OF CHEATING WILL RESULT IN AN AUTHOMATIC DISMISSAL FROM EXAMINATION HALL AND CANCELLATION OF YOUR SCORE.

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

SECTION ONE: Verbal Reasoning

This section contains a total of 35 verbal reasoning questions with sub sections of analogy, synonyms, synonyms, classification, sentence completion, advanced verbal anagrams, analytical and verbal reasoning. Each sub_ section has its own directions.

Analogy

DIRECTIONS: To answer questions 1_3, read the related pair of words written in capital letters followed by four pairs of words. Select the pairs that best expresses a relationship similar to that expressed in the original capitalized pair. Then find corresponding number on the separate answer sheet and blacken the letter of your choice.

1. BLATANT: OBVIOUS

- | | |
|----------------------------|-----------------------|
| A. Preeminent: important | C. Novel: obsolete |
| B. Legendary: unbelievable | D. Powerful: dominant |

2. CRINGE: DISCOMFORT

- | | |
|------------------------------|--------------------------|
| A. Nod: acquiescence | C. haiku: poetry |
| B. handshake: discrimination | D. hyperbole: literature |

3. ALTRUISM: SELFISHNESS

- | | |
|-----------------------|----------------------|
| A. alacrity: clarity | C. levity: flippant |
| B. impartiality: bias | D. gravity: momentum |

DIRECTION: For questions 4_6 read each of the following words carefully and choose the word that correctly completes the analogy. Then blacken the letter of your choice on the separate answer sheet provided.

4. DEPRESSED is to SAD as ELATED is to _____

- | | | | |
|----------|-----------|---------|----------|
| A. bored | B. strong | C. weak | D. happy |
|----------|-----------|---------|----------|

5. PILOT is to AIRPLANE as CONDUCTOR is to _____

- | | | | |
|----------------|---------|----------|---------|
| A. electricity | B. ship | C. train | D. band |
|----------------|---------|----------|---------|

6. SHY is to CONFIDENCE as COWARDLY is to _____

- | | | | |
|----------|---------------|------------|------------|
| A. sense | B. difficulty | C. bravely | D. manners |
|----------|---------------|------------|------------|

SYNONYMS

DIRECTIONS: Questions 7_9 consist of words printed in capital letters followed by four words. Choose the word that is most nearly SIMILAR in meaning to the word in capital letters. Then find the question number and blacken the letter of your choice on the separate answer sheet provided.

7. REMOTE

- | | | | |
|--------------|------------|-----------|---------|
| A. automatic | B. distant | C. savage | D. mean |
|--------------|------------|-----------|---------|

8. DETEST

- | | | | |
|----------|---------|-------------|-----------|
| A. argue | B. hate | C. discover | D. reveal |
|----------|---------|-------------|-----------|

9. FRAUD

- | | | | |
|---------------|-------------|-------------|----------|
| A. malcontent | B. argument | C. imposter | D. clown |
|---------------|-------------|-------------|----------|

ANTONYMS

DIRECTIONS: Questions 10_14 consist of words printed in capital letters followed by four words. Choose the word that is most nearly OPPOSITE in meaning to the word in capital letters. Then, find the question number and blacken the letter of your choice on the separate answer sheet.

10. WITHDRAW

- A. reduce B. need C. advance D. want

11. AWE

- A. borrow B. shallow C. low D. contempt

12. ABATE

- A. free B. augment C. provoke D. wane

13. MEAGER

- A. kind B. generous C. thoughtful D. copious

14. GERMANE

- A. irrelevant B. indifferent C. impartial D. improvident

CLASSIFICATION ITEMS

DIRECTIONS: In questions 15_18, three out of the four words are in the same classification. Choose the word that does not belong in the same classification as the others and blacken the letter of your choice on the separate answer sheet provided.

15. Which one of the following words does not belong with the others?

- A. street B. freeway C. interstate D. expressway

16. Choose the word that is different from the other three.

- A. couch B. rug C. table D. chair

17. Which one of the following words does not belong with the others?

- A. book B. index C. glossary D. chapter

18. Choose the word that is different from the other three.

- A. branch B. dirt C. leaf D. root

SENTENCE COMPLETION

DIRECTIONS: Answer questions 19_21 by selecting the choice that contains the word or pair of words that can correctly complete the statements. Then, blacken the letter of your choice on the separate answer sheet provided.

19. Steven is always _____ about showing up for work because he feels that tardiness is a sign of irresponsibility.

- A. legible B. tolerable C. punctual D. belligerent

20. Shakespeare, a/an _____ writer, entertained audiences by writing many tragic and comic plays.

- A. numeric B. obstinate C. dutiful D. prolific

21. Aster would _____ her little sister into an argument by teasing her and calling her names.

- A. advocate B. provoke C. perforate D. lament

Advanced verbal Test Anagrams

DIRECTIONS: Questions 22-23 deal with word anagrams

Read each questions carefully and give your answer by blackening the letter of your choice on the separate answer sheet provided.

22. Only one of the groups of five letters can be rearranged to spell out a five letter English word which is a direction.

- A. Shrub B. shout C. Scare D. sharp

23. Only one of the pairs of words below can be rearranged to yield an eight-letter English word which is part of a body. Identify

- A. nor sleek C. road sign
B. bus panes D. nil sorts

Analytical and Logical Reasoning Questions

DIRECTIONS: Answer questions 24-29 based on the following information. Then, blacken the letter of your choice on the separate answer sheet provided.

A,B,C,D,E,F and G are playing cards sitting around a circular table facing the center.

D is not neighbor of C or E.

A is neighbor of B and C

Who is second to the left of D is the neighbor of E and F.

24. Which of the following contains the pair with the second person sitting to immediate right of the first person?

- A. G F B. E C C. A E D. BD

25. What is the position of C
- A. To the immediate right of E.
 - B. To the immediate left of A.
 - C. Third to the right of F.
 - D. Second to the right of B.
26. Which of the following has second person sitting between the first and third person?
- A. BCA B. GFD C. GCE D. DAB
27. Which of the following is wrong?
- A. E is between G and C.
 - B. F is between G and D.
 - C. B is the immediate left of D.
 - D. A is to the immediate right of B.
28. Which of the following is correct?
- A. E is to the immediate right of G.
 - B. F is to the immediate left of G.
 - C. D is between F and G.
 - D. B is between A and D.
29. Which of the following will be D's position after E and D interchange their places?
- A. To the immediate left of C.
 - B. To the immediate right of F.
 - C. Neighbor of C and A.
 - D. Neighbor of G and C.

DIRECTION: Answer questions 30-33 based on the information given in the statement and assumptions that follow.

30. Statement: If you are an engineer, we have a challenging job for you.

Assumptions : (I) we need an engineer.

(II) You are an engineer.

- A. Only assumption I is implicit.
 - B. Only assumption II is implicit.
 - C. Neither I nor II is implicit.
 - D. Both I and II are implicit.
31. Statement: Everybody loves reading adventure stories.
- Assumption: (I) Adventure stories are the only reading material.
- (II) Nobody loves reading any other material.
- A. Only assumption I is implicit.
 - B. Only assumption II is implicit.
 - C. Neither I nor II is implicit.
 - D. Both I and II are implicit.

32. Statement: Do not copy our software without our permission- A notice.

Assumptions: (I) It is possible to copy the software.

(II) Such warning will have some effect

- A. Only assumption I is implicit.
- B. Only assumption II is implicit.
- C. Neither I nor II is implicit.
- D. Both I and II are implicit.

33. Statement: A rare opportunity to be a professional while you are at home."-An advertisement for computer literate housewives by a computer company.

Assumptions: (I) Some housewives simultaneously desire to become professional.

(II) Computer industry is growing at a fast pace.

(III) It is possible to be a professional as well as a housewife.

- A. Only I and II are implicit.
- B. Only II and III are implicit.
- C. Only I and III are implicit.
- D. Only II is implicit.

DIRECTIONS: Answer questions 34-35 based on the information given in the statement and arguments that follow.

34. Statement: Should the education at all levels be offered only in vernacular medium.

Arguments: (I) Yes. This is the only way to enhance performance of the students.

(II) No. This will severely affect acquiring knowledge for want of good text books in vernacular medium.

- A. Only argument I is strong.
- B. Only argument II is strong.
- C. Neither I nor II is strong.
- D. Both I and II are strong

35. Statement: Should girls learn arts like judo and karate?

Arguments : (I) Yes. It will enable them to defend themselves.

(II) No. They will lose their feminine grace.

- A. Only argument I is strong.
- B. Only argument II is strong.
- C. Neither argument I nor II is strong.
- D. Both I and II are strong.

Part II: Quantitative reasoning

36. If the sum of three consecutive integers is 30, then the product of the smallest and the largest of these numbers is:

- A. 90 B. 96 C. 100 D. 99

37. The least number that should be added to 2497 to make it exactly divisible by 13 is:

- A. 12 B. 11 C. 9 D. 1

38. If $a=4$, then what is the value of $\frac{a^2-6a+9}{a^2-9}$?

- A. 7 B. $\frac{4}{3}$ C. $\frac{1}{7}$ D. $\frac{3}{4}$

39. Compare the following two quantities

Quantity A	Quantity B
$10\sqrt{2}$	$8\sqrt{3}$

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

40. Ujulu multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$. What is the approximate percentage error in his calculation?

- A. 64% B. 75% C. 34% D. 105%

41. If x is a **square** number and $2x - 69 < 5$, then how many different values can x take?

- A. 8 B. 7 C. 5 D. 6

42. If $f(x) = 5x + 6$, then which of the following represents $f(x + 3)$?

A. $15x - 6$

C. $5x - 3$

B. $15x - 3$

D. $5x + 9$

43. If $7x - 3 = 151$ and $9y - 8 = 163$, then what is the difference between x and y?

A. 3

B. 7

C. 41

D. 11

44. A number X is decreased by 25% yields the same result as another number Y increased by 25%. What the ratio Y:X?

A. 1:5

B. 5:1

C. 3:5

D. 5:3

Data interpretation questions (45 – 47)

Directions: The following table gives the percentage of marks obtained by seven students in six different subjects in an examination. Answer questions **45 – 47** based on the data in the table.

Students	Mathematics	Biology	Civics	Geography	Amharic	History
XAGU	90	50	90	60	70	80
YIRGA	100	80	80	40	80	70
ZEGEYE	90	60	70	70	90	70
KEBEDE	80	65	80	80	60	60
LAKACHEW	80	65	85	95	50	90
MEKONNEN	70	75	65	85	40	60
TILAHUN	65	35	50	77	80	80

45. What is the aggregate mark obtained by ZEGEYE in all the **six** subjects?

A. 409

B. 419

C. 450

D. 429

46. In which subject is the overall percentage is **best**?

A. History

B. Mathematics

C. Civics

D. Biology

47. The number of students who obtained 60% and above marks in each subject is:

- A. 2 B. 1 C. 3 D.4

48. $\frac{1}{4} + 0.25 + \frac{250}{1000} + \frac{100}{400} + \frac{250}{500} + \frac{500}{1000} = \underline{\hspace{2cm}}$

- A. 1 B. 3 C.2 D.4

49. Look at the pattern carefully: 32, 31, 32, 29, 32, 27, 32, which of the following numbers comes next?

- A. 29, 32 B. 29, 30
C. 25, 32 D. 25, 30

50. If one forth of one - third of X is 25, then what is three - tenth of X?

- A. 90 B. 300 C. 40 D. 900

51. In a group of 15, 7 drink coffee, 8 drink tea and 3 drink neither. What fraction of the group drinks both tea and coffee?

- A. $\frac{2}{3}$ B. $\frac{1}{3}$ C. $\frac{1}{5}$ D. $\frac{1}{3}$

52. The price of a jacket was reduced by 20%.During a special sale, the price was discounted another 10%. What was the total percentage discount from original price of the jacket?

- A. 25% B. 28% C. 72% D.30%

53. Which of the following expression has an even integer value for all integers x and y?

- A. $60+4xy$ B. $3x+3y$
C. $2x+y$ D. $x+2y$

54. If $a=3$, then what is the value of $2^{2a}+1$?

- A.13 B. 17 C. 65 D. 33

55. Which of the following is the largest fraction?

A. $\frac{14}{18}$

B. $\frac{4}{5}$

C. $\frac{6}{8}$

D. $\frac{14}{16}$

56. The age of two persons X and Y differ by 14 years. 6 years ago, X was thrice as old as Y. What is the present age of Y?

A. 13

B. 15

C. 16

D. 18

57. In how many ways can the letters of the word '**ACTION**' be arranged?

A. 6

B. 36

C. 216

D. 72

58. If $f(x) = x^2 - 25$, how many times the graph of the function $f(x)$ crosses the x axis?

A. 0

B. 1

C. 2

D. 5

59. The expression $\frac{\left[4 - \frac{1}{2}\right]}{\left[5 + \frac{1}{4}\right]}$ is equal to:

A. $\frac{4}{5}$

B. $\frac{2}{3}$

C. $\frac{8}{5}$

D. $\frac{6}{7}$

60. A number X4736X can be divisible by 6 if X takes a value of:

A. 2

B. 3

C. 4

D. 6

