

**ADDIS ABEBA CITY GOVERNMENT YEKA SUBCITY EDUCATION
OFFICE**

**SCHOLASTIC APTITUDE FIRST SEMESTER MODEL TEST (SAT)
TO ALL GRADE 12th NATURAL AND SOCIAL SCIENCE STREAM.**

YEKATIT 2014 E.C / FEBRUARY 2022 G.C

TIME ALLOWED: 2 HOURS

GENERAL DIRECTION

THIS BOOKLET CONTAINS **SCHOLASTIC APTITUDE TEST**. 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 ONLY. ALL OTHER CANDIDATES ARE REQUIRED TO ATTEMPT BOTH SECTIONS.***

EACH SECTION CONTAINS **MULTIPLE CHOICE ITEMS** CONTAINING OF FOUR POSSIBLE ANSWERS. IN EACH CASE, SELECT THE BEST ANSWER AND **BLACKEN** THE LETTER OF YOUR CHOICE ON THE SEPARATE ANSWER SHEET. ***VISUALLY IMPAIRED CANDIDATES ARE ALLOWED TO WORK FOR ONLY ONE HOUR. THE OTHER CANDIDATES ARE ALLOWED TO WORK FOR TWO HOURS ON THE TEST.*** WHEN TIME IS CALLED, YOU MUST IMMEDIATELY STOP WORKING, PUT YOUR PENCIL DOWN AND WAIT FOR FURTHER INSTRUCTION. ***ANY FORM OF CHEATING OR AN ATTEMPT TO CHEAT IN THE EXAMINATION HALL WILL RESULT IN AN AUTOMATIC DIMISSAL FROM THE EXAMINATION HALL AND CANCELLATION OF YOUR SCORE(S).*** PLEASE MAKE SURE THAT YOU HAVE WRITTEN ALL THE REQUIRED INFORMATION ON THE ANSWER SHEET BEFORE YOU START TO WORK ON THE EXAMINATION.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO!

SECTION ONE: Verbal Reasoning (Questions 1-35)

This Section Contains a Total Of 35 Verbal Reasoning Questions with Sub Section of *Analogy, Synonyms, Antonyms, Language Usage, Sentence Completion, Reading Comprehension, And Logical and Analytical Reasoning.* Each Subsection has its own Direction.

ANALOGY

DIRECTION: From question 1-5 related pair of words is followed by other related words that have similar relationship when paired with the previous pair. Answer these questions by selecting the choice that completes the given analogy correctly by shading the correct choice on the separate answer sheet.

1. Promise: Fulfill

- A. Confession: Hedge
- B. Low: Enforce
- C. Pledge: Deny
- D. Pawn: Redeem

2. Bread: wheat

- A. Fruit: Tree
- B. Butter: Cow
- C. Oil: Corn
- D. Wine: Grape

3. Suggest: Demand

- A. Take: Grap
- B. Question: Ask
- C. Give: Receive
- D. Deny: Request

4. Exemption: Rule

- A. Exile: Nation
- B. Forgiveness: Crime
- C. Immunity: disease
- D. Debarment: prevention

5. Mad: Insane

- A. Silm: thin
- B. Red: green
- C. Brave; timed
- D. Healthy: fat

SYNONYMS

DIRECTION: Question 6-10 consists of a word printed in capital letters, followed by four words. Choose the word that is the most nearly similar in meaning to the word in capital letter and blacken the letter of your choice on the separate answer sheet.

6. VENERATE

- A. Accuse B. Abuse C. Respect D. Defame

7. ACUTE

- A. Curious B. Severe C. Accidental D. Rice

8. REITERATE

- A. Frustrate B. Illustrate C. Repeat D. Receipt

9. PARAMOUNT

- A. Very important B. Wild and extensive
C. Above others in rank of authority D. Famous

10. IDEAL

- A. Civilized B. Thought C. Model to be followed D. Useless

ANTONYMS

DIRECTION: Questions 11-15 consists of a word printed in a capital letter followed by four words. Choose the word that is the most nearly opposite in meaning to the word in capital letter and blacken the letter of your choice on the separate answer sheet

11. URBAN

- A. Domestic B. Civil C. Rural D. Rustic

12. MOISTURE

- A. Defect B. Dampness C. Delicate D. Dryness

13. UNION

- A. Blending B. Merger C. Combination D. Separation

14. ASSIST

- A. Aid B. Hinder C. Facilitate D. Help

15. SUSPEND

- A. Pend B. Switch C. Resume D. Turn on

VOCABULARY SUBSTITUTION

DIRECTION: Each of the questions below (16-20) consists of underlined word or phrase. Among the given alternatives, choose the one that most nearly has the same meaning as the underlined word or phrase and blacken the letter of your choice on the separate answer sheet.

16. There has been a colossal amount of comment in the press, and on the web, and Television about their ridiculous story.
A. Fair B. Silly C. Vast D. Average
17. Somebody is singing up stairs and it sounds as though they are flat.
A. Tired C. Out of tune
B. Lying down D. Living in a separate dwelling
18. Since the problem of a few years back, they seem to be living and working together quite harmoniously.
A. With out disagreement C. Comfortably-off
B. Musically D. Free from potential danger
19. I love the way the artist has shaded the forested horizon into the evening cloud.
A. Cooled B. Colored C. Blended D. Mixed
20. Police are preparing to comb the park for clues to yesterday's crime.
A. Sweep B. Brush C. Search D. Wash

SENTENCE COMPLETION

DIRECTION: Each sentence (21-25) below has one or two blanks; each blank including that sometimes has been omitted. Beneath the sentence are four words or set of words. Choose the word or set of words for each blank that best fits the meaning of the sentence as a whole and blacken the letter of your choice on the separated answer sheet.

21. The scientist made a _____ discovery for which he was honored.
A. Sensual B. Sensuous C. Sentimental D. Sensational
22. The government should provide attractive tax _____ to create the market of quality goods.
A. Incentive B. resource C. structures D. revenues
23. The new owners of the paper changed the _____ completely.
A. Outlook B. layout C. outlet D. outlay
24. Beauty is to ugliness as adversity is to _____.
A. Cowardice B. misery C. prosperity D. happiness
25. We had a wonderful view of the bay through the _____.
A. nadir B. window C. vicinity D. zenith

READING COMPREHENSION

DIRECTION: Read the following passage and answer the questions that follow and blacken the letter of your choice on the separated answer sheet.

Speech is great blessing but it can also be great **curse**, for while it helps us make our intentions and desires known to our fellows. It can also if we use it carelessly, make our attitude completely misunderstood.

A slip of tongue, the use of unusual word, or of an ambiguous word, and so on, may create an enemy where we had hoped to win a friend. Again, different classes of people use different vocabularies, and the ordinary speech of an educated may strike an uneducated listener as pompous. Unwittingly, we may use a word which bears a different meaning to our listener from what it does to men of our class. Thus, speech is not a gift to use lightly without thought, but one which demands careful handling. Only a fool will express himself alike to all kinds and condition to men.

26. According to the passage, the best way to win a friend is to avoid
 - A. Irony in speech
 - B. Pomposity in speech
 - C. Verbosity in speech
 - D. Ambiguous in speech
27. While talking to uneducated person, we should use
 - A. Ordinary speech
 - B. his vocabulary
 - C. simple words
 - D. polite words
28. if one used the same style of language with everyone, one would sound
 - A. flat
 - B. boring
 - C. foolish
 - D. democratic
29. 'A slip of tongue' means something side
 - A. Wrongly by choice
 - B. Unintentionally
 - C. Without giving proper thought
 - D. To hurt another person
30. Speech can be curse, because it can
 - A. hurt others
 - B. lead to carelessness
 - C. create misunderstanding
 - D. reveal our intention

LOGICAL AND ANALYTICAL REASONING

DIRECTION: The following questions need to be putted in logical sequence and to be solved in logical and analytical reasoning, read the following information carefully and then answer question 31-35 based on them.

31. 1. Income 2. Status 3. Education 4. Well being 5. Job

Arrange the above words in a meaningful sequence and then choose the most appropriate sequence among the alternatives given below.

- A. 3,5,1,2,4 B. 3,1,5,2,4 C. 1,2,5,3,4 D. 1,3,2,5,4

32. 1. Gold 2. Iron 3. Sand 4. Platinum 5. Diamond

Arrange the above words in a meaningful sequence and then choose the most appropriate sequence among the alternatives given below.

- A. 4,5,1,3,2 B. 5,4,3,2,1 C. 2,4,3,5,1 D. 3,2,1,5,4

33. A party consists of grandmother, mother, four sons and their wives and one son and two daughters to each of the sons. How many female are there in all?

- A. 12 B. 14 C. 16 D. 18

34. **A** and **B** are brothers, **C** and **D** are sisters, **A**'s son is **D**'s brother. How is **B** related to **C**?

- A. Father B. Grandfather C. Uncle D. Brother

35. **A,P, R, X, S,** and **Z** are sitting in a row. **S** and **Z** are in the center and **A** and **P** are at the ends. **R** is sitting on the left of **A**, then who is on the right of **P**?

- A. S B.X C. A D. Z

SECTION TWO: Quantitative reasoning (Questions 36-60)

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

36. What is the next term in the sequence 6, 15, 11, 20, 16, ... ?

- A. 12 B. 25 C. 30 D. 35

37. If the product of twenty integers is **negative** at most how many of the integers can be negative?

- A. 11 B. 17 C. 15 D. 19

38. A student was asked to multiply a certain number by 25, but he multiplied it by 52 and got his answer more than the correct one by 324. Then the number to be multiplied is:
- A. 15 B. 32 C. 12 D. 25
39. If $2A = 3B = 4C$, then $A:B:C$ is:
- A. 2:3:4 C. 6:4:3
B. 4:3:2 D. 3:4:2
40. The monthly telephone bill of Mintesnot's company was Birr 3200 and it increase by 20% after 12 months, and another 30% increase is applied six months later. What is the price of Mintesnot's company telephone bill after 18 months?
- A. 4992 Birr B. 3840 Birr C. 4840 Birr D. 4800 Birr

Quantitative comparison (41 – 43)

41. If $x = a\%$ of b and $y = b\%$ of a , then which of the following is true?
- A. x is less than y
B. y is less than x
C. The relation between x and y cannot be determined
D. x and y are equal
42. Consider the following two quantities

Quantity A	Quantity B
$\left(\frac{1}{33}\right)^{-14}$	$(-33)^{14}$

- A. Quantity A is greater than Quantity B
B. Quantity A is less than Quantity B
C. The two quantities are equal
D. The relationship cannot be determined from the information given

43. If $x < 0 < y$

Column A	Column B
$ x + y $	$ x - y $

- A. The quantity in column B is greater
- B. The quantity in column A is greater
- C. The two quantities are equal
- D. The relationship is indeterminate

44. Tigist and Helen have share 3000 Birr. If $\frac{4}{15}$ of Tigist's share is equal to $\frac{2}{5}$ of Helen's share, then how much amount does Helen has?

- A. 1200 Birr B. 1500 Birr C. 1800 Birr B. 1600 Birr

45. If 75% of a number is added to 75, Then the result is the number itself. What is the number?

- A. 225 B. 275 C. 325 D. 300

46. Three- fifth of a number is more than its 40% by 85, then what is 60% of that number?

- A. 245 B. 255 C. 250 D. 260

47. The average age of 30 students is 9 years. If the age of their teacher is included, the average age becomes 10 years, then the age of the teacher is:

- A. 21 Years B. 27 Years C. 40 Years D. 35 Years

48. If $\frac{a}{3b} = \frac{1}{3}$, what is the value of $\frac{4b}{a}$?

- A. 1 B. 4 C. 6 D. 12

49. If $\frac{3}{4}$ of a number is 7 more than $\frac{1}{6}$ of the number, then $\frac{5}{3}$ of the number is

- A. 20 B. 15 C. 18 D. 12

50. The price of 10 chairs is equal to that of 4 tables, the price of 15 chairs and 2 tables is 4000 Birr. the total price of 6 chairs and 8 tables is:

- A. 4600 B. 5900 C. 6400 D. 5200

51. If $4x - 3y = 5$, then what is the value of $\frac{16^x}{8^y}$?

- A. 32 B. 10 C. 5 D. 16

52. If $x > 0$, how many integer values of (x, y) will satisfy the equation

$$6x + 5|y| = 66?$$

- A. 7 B. 5 C. 4 D. 3

53. Of the 200 students at a certain school, 88 students are taking Mathematics, 48 students are taking English and 74 students are taking neither Mathematics nor English. How many students are taking both Mathematics and English?

- A. 16 B. 10 C. 12 D. 18

54. Which letter comes next in the sequence A, Z, G, T, M, ...?

- A. P B. K C. N D. S

55. If $y = kx$, where k is a non zero constant and $y = 24$ when $x = 6$, what is the value of y when $x = 9$?

- A. 36 B. 32 C. 48 D. 4

DIRECTION: Questions (56-58) below are based on the **percentage** of marks obtained by **seven** students in **six** different subjects in an examination.

Students ↓	Subject	Maths	Chemistry	Physics	Geography	History	ICT
	Maximum → Marks	150	130	120	100	60	40
Behabtu		90	50	90	60	70	80
Kalkidan		100	80	80	40	80	70
Abiy		90	60	70	70	90	70
Sofanet		80	65	80	80	60	60
Yakob		80	65	85	95	50	90
Mihreteab		70	75	65	85	40	60
Hirut		65	35	50	77	80	80

56. What is the aggregate of marks obtained by Abiy in all the six subjects?

- A. 439 B. 459 C. 429 D. 449

57. The number of students who obtained 60% and above marks in all subjects is:

- A. 4 B. 3 C. 2 D. 5

58. What is the average mark obtained by all the seven students in Physics?

- A. 77.26 B. 89.14 C. 75.16 D. 91.37

59. 42 Oranges are distributed among some boys and girls. If each boy gets 3 then each girl gets 6. But if each boy gets 6 and each girl gets 3 it needs 6 more Oranges. Then the number of girls is:

- A. 8 B. 4 C. 6 D. 10

60. In a box, there are 4 red, 6 blue and 5 green balls. One ball is picked up randomly. What is the probability that is neither red nor green?

- A. $\frac{2}{5}$ B. $\frac{2}{3}$ C. $\frac{11}{20}$ D. $\frac{3}{5}$