



GRADE 12 SCHOLASTIC APTITUDE TEST (SAT) MODEL EXAMINATIONS 2017E.C/ 2025G.C

NUMBER OF QUESTIONS: 65 TIME ALLOWED: - 2 HOURS

GENERAL DIRECTIONS

THIS MODEL EXAMINATION CONTAINS 65 MULTIPLE CHOICE SCHOLASTIC APTITUDE TEST (SAT) QUESTIONS.

THERE IS ONLY ONE BEST ANSWER FOR EACH QUESTION. CHOOSE THE CORRECT ANSWER FROM THE SUGGESTED OPTIONS AND BLACKEN THE LETTER OF YOUR CHOICE ON THE ANSWER SHEET. USE ONLY PENCIL TO MARK YOUR ANSWERS. YOUR ANSWER MARKS 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.

YOU ARE ALLOWED TO WORK ON THE EXAM FOR 2 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(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 OVER UNTIL YOU ARE TOLD TO DO SO

Section one : Verbal Reasoning(Questions 1-35)

Direction: This section which is subdivided into Synonyms, Antonyms, Analogy, Reading comprehension, Analytical and logical reasoning contains **35** verbal reasoning items altogether. Each subsection is followed by its specific directions.

Analogy

Directions: Answer questions **1-8** 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 letters of your choice on the separate answer sheet provided.

1. TREE : FOREST :: STAR: _____
A. sky
B. night
C. galaxy
D. light
2. LANGUAGE : COMMUNICATE:: ART : _____
A. Express
B. Inspire
C. create
D. Design
3. KING : KINGDOM :: PRESIDENT : _____
A. Nation
B. Government
C. Country
D. State
4. DISEASE : HEALTH :: FREEDOM: _____
A. pleasure
B. Beauty
C. Plight
D. Slavery
5. YEAST is to FERMENTATION as BACTERIA is to _____
A. Sedimentation
B. Decomposition
C. Distillation
D. Decantation
6. LION : JUNGLE :: WHALE : _____
A. . forest
B. ground
C. sky
D. ocean
7. WATER : DAM :: TRADE : _____
A. commerce
B. goods
C. economy
D. trade policy
8. REGRET Is to the PAST as FORECAST is to the _____
A. present
B. future
C. past
D. moment

Synonyms

Directions: Questions **9-13** consists of words printed in the 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

9. CANDID
 A. Deceitful C. honest
 B. B. Secretive D. Reserved
10. ZEALOUS
 A. . Indifferent C. Enthusiastic
 B. B. Apathetic D. Uninterested
11. WISTFUL
 A. Happy C. cheerful
 B. joyful D. Regretful
12. OBFUSCATE
 A. Clarify C. Explain
 B. B. Illuminate D. Confuse
13. KINETIC
 A. Motionless C. Active
 B. Static D. Inert

Antonyms

Directions: Questions **14-17** consists of words printed in the 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.

14. .ABOMINATE
 A. Gratify C. Consol
 B. Esteem D. Support
15. DILIGENCE
 A. Laziness C. carefulness
 B. B. Hard work D. Industrious
16. VIBRANT
 A. Dull C. colorful
 B. lively D. bright
17. .JUVENILE
 A. Childish C. youthful
 B. kiddy D. mature

Anagram Items(Questions 18-19)

Directions: If you rearrange the orders of the given letters of a word for items 18 & 19, you get another meaningful word or phrase. Choose the right word that is formed in this way.

18. Identify the anagram of the phrase Debit Card.
 A. Credit Dab C. Card bit de
 B. Bad Credit D. Bit card
19. .If you rearrange all the letters in the word DORMITORY, you will get_____
 A. Dirty room C. Mitory room
 B. Thirty Room D. Orditory

Reading Comprehension

Directions: Read the following passages carefully and answer questions **20-24**. 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 I

In today's digital age, social media platforms play a significant role in communication, education, and entertainment. However, using social media wisely is crucial to maximize its benefits while minimizing risks. Responsible social media use involves understanding privacy settings, being mindful of the information shared, and recognizing the impact of online interactions on mental health.

The text emphasizes the importance of critical thinking when consuming information online. Users should verify sources before sharing contents to combat misinformation. Additionally, It highlights the needs for setting boundaries around social media use to prevent addiction and maintain a healthy balance between the online and offline activities.

Moreover, the article encourages users to engage positively, fostering supportive online communities rather than contributing to negatively or bullying. By being aware of their digital footprint , individuals can navigate social media more effectively and responsibly.

Source : Common sense media ;journal

20. Critical thinking is very important in using social media because, it:
- A. Allows users to post more frequently
 - B. helps verify sources and combat information.
 - C. Encourages sharing unverified content.
 - D. Promotes the passive consumption of information.
21. How can users prevent social media addiction according to the passage?
- A. . by engaging more frequency
 - B. B. by avoiding privacy settings
 - C. by sharing every posted information
 - D. by setting boundaries around usage.
22. .If you don't use social media wisely , you :
- A. can improve communication skills.
 - B. will be exposed to negative interactions.
 - C. can increase knowledge about current events.
 - D. better communicate with your friends
23. What action does the text recommend to combat negativity online?
- A. Engaging in arguments
 - B. promoting supportive interactions.
 - C. deleting negative posts
 - D. reducing time spent on social medias.
24. The overall message of this article is :
- A. social media should be avoided entirely.
 - B. Social media is only for entertainment.
 - C. Social media has no impact on society.
 - D. Social media can be beneficial if we use it responsibly.

Passage II.

English has become a global lingua franca, connecting people from diverse backgrounds and cultures. As the most widely spoken language in the world, it serves as a primary means of communication in international business, diplomacy, science, and technology. Learning English opens up numerous opportunities for individuals, including access to better job prospects, higher education, and cultural exchanges.

In addition to its practical applications, English is the language of the internet, with a significant portion of online content available in English. This dominance makes it essential for anyone looking to engage with global communities and stay informed about international developments.

Moreover, proficiency in English can enhance cognitive skills and improve overall communication abilities. As globalization continues to expand, the ability to speak English is increasingly seen as a valuable asset in both personal and professional contexts.

Source : Text Summary

25. English is referred as the global lingua Franca. This is because:
- A. It is official language of many countries.
 - B. It connects people from diverse backgrounds.
 - C. It is easiest language to learn.
 - D. It is only spoken in some countries.
26. English proficiency can improve communication abilities according to the passage. By :
- A. . complicating communication.
 - B. limiting the diverse cultures.
 - C. reducing the need for non-verbal communication.
 - D. allowing for better understanding of diverse culture.
27. The reason that an individual might learn English according to the text is :
- A. to isolate him/herself from other cultures.
 - B. to limit their career options.
 - C. to engage with global communities.
 - D. to avoid learning other languages.
28. What does the text imply about the future of English language learning?
- A. It will continue to be valuable skill.
 - B. It will be replaced by other languages.
 - C. It will become less important.
 - D. It will only be necessary for academics.

Analytical and Logical Reasoning (Questions29-31)

Directions: Questions 29-31 deals with analytical and Logical 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.

29. A Man introduced the a person as he is the husband of my sons sister. How is the man related to the person being introduced?
- A. Nephew
 - B. Son-in- law
 - C. Son
 - D. Brother- in- law
30. In a certain language code, FISH is coded as GJTI, what is the code for BIRD in that code?
- A. CJSE
 - B. CISE
 - C. CJSF
 - D. DJSF

31. If Today is Monday, What day will it be after 45 days from now?

- A. Thursday
- B. Wednesday
- C. Tuesday
- D. Monday

Directions: Answer questions 32& 33 based on the information given in the statement and conclusion that follows.

32. .Statment: All computers are machines.

Some machines are not computers.

Conclusions: Therefore, _____.

- A. All machines are computers.
- B. All machines are not computers.
- C. Some computers are not machines.
- D. Some machines are computers.

33. Statment : Some flowers are red.

All red things are beautiful.

Conclusions: I. All flowers are beautiful.

II. Some flowers are beautiful.

- A. Only conclusion I follows.
- B. Neither I nor II follows
- C. only II follows.
- D. both I and II follows.

Classification Items(Questions 34 & 35

Directions: In questions 34- 35, 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.

34. Identify the odd one out.

- A. Mercury
- B. Oxygen
- C. Hydrogen
- D. Nitrogen

35. Which of the following does not belong to the same category?

- A. Eagle
- B. Sparrow
- C. parrot
- D. Shark

Section two: quantitative reasoning (question 36-60)

Direction: this section contains 30 quantitative reasoning items which consists of algebra, geometry, comparison of quantities, probabilities and statics all together. Solve each of the problems given in question 36-65 according to their specific instruction and select the correct answer from the given alternative. Then blacken the letter of your choice on the separated answer sheet provided.

Instruction: for question36-57 choose the correct answer from the given alternative

36. If all men are mortal, and Socrates is a man then Socrates is mortal.
- A. Deductive reasoning
B. Inductive reasoning
C. It is not valid argument
D. It is false statement
37. All swans I have seen are white. Therefore, all swans are white.
- A. Deductive reasoning
B. Inductive reasoning
C. It is valid argument
D. It is true statement
38. Which one of the following is necessary condition for a triangle to be equilateral?
- A. all sides are equal
B. All angles are equal
C. Two angles are equal
D. Two sides are equal
39. What is the role of counterexamples in mathematical reasoning?
- A. To prove a statement is true
B. To disprove a statement
C. To provide additional evidence
D. To illustrate a concept
40. Which one of the following is a counter example to the statement some even natural numbers are prime?
- A. 5
B. 3
C. 4
D. 2
41. Let $f(x) = \frac{3}{x+1}$ what will be $f(\frac{1}{2})$
- A. 5
B. 3
C. 2
D. 4
42. let $x = 14x^{22}x^{78}$: then which one of the following is not an integer.
- A. $\frac{x}{16}$
B. $\frac{x}{26}$
C. $\frac{x}{21}$
D. $\frac{x}{77}$
43. suppose $x \neq \pm 3$, 2 what is the simplified form of $\frac{4x-8}{x^2-9} \div (\frac{x-2}{x^3-9x})$
- A. x
B. 8x
C. 4x
D. 4

44. Suppose the system of linear equation $\begin{cases} kx - 4y = 6 \\ 2x + 8y = -4 \end{cases}$ have no solution what will be the value of k ?
- A. 1 B. -1 C. 2 D. -2
45. Suppose a line $L: 2x + ky = 5$ is perpendicular $L: y - x = 4$ then what is the value of k ?
- A. 1 B. -2 C. -1 D. 2
46. Suppose the sequence is given as -27, -21, -15, -9, ... then what is the 6th term?
- A. -3 B. 0 C. 3 D. 6
47. What is the place value of the underline digit in 10,254.679
- A. Ten thousandth B. tenth C. hundredth D. thousandth
48. What is the sum of natural number less than 101?
- A. 5,050 B. 4,040 C. 6,060 D. 10,100
49. If a number is increased by 30% and then decreased by 30%, what is the net percentage change?
- A. 9% Increased B. 0% C. 30% decrease D. 9% decrease
50. Suppose Abel bought a computer by 10,000 and he sold it by obtaining 10% of profit what is the selling price for his computer?
- A. 9000 B. 10,500 C. 11,000 D. 11,500
51. Suppose the length of two sides of a triangle are 7cm and 8cm; which one of the following will be the length of 3rd side of a triangle?
- A. 16 B. 15 C. 14 D. 13
52. Suppose the length of a rectangle is 3 more than the length of a square, the width of a rectangle 5 less than the length of sides of square and the area of a rectangle is 48. What will be area of a square?
- A. 49 B. 64 C. 81 D. 100
53. What is the height of equilateral triangle with side length 10cm?
- A. $10\sqrt{3}$ cm B. $5\sqrt{3}$ cm C. $2\sqrt{3}$ cm D. $15\sqrt{3}$ cm
54. The total amount of money is to be distributed for Abel, Almaza, Abebe and Keder in the ratio of 2:4:1:3 respectively if keder obtains 2700 birr what is the dividend obtain by Almaze
- A. 1800 B. 900 C. 3000 D. 3600

55. The weekly temperature in Addis Ababa is 25° for each day. What is the standard deviation of the temperature in the week?
- A. 5 B. 0 C. 50 D. 25
56. A bag contains 8 black and 6 red balls. What is the probability of obtaining a red ball?
- A. $\frac{3}{7}$ B. $\frac{4}{7}$ C. $\frac{14}{6}$ D. $\frac{14}{8}$
57. There are three roads from Addis Ababa to Jima and six roads from Jima to Mizan. There are 2 roads from Addis Ababa to Mizan directly not crossing Jima if you want to go from Mizan to Addis Ababa. How many possible ways do you have?
- A. 11 B. 18 C. 20 D. 36

Instruction: for questions 58-61 compare quantities using the given information and choose the correct answer from the given alternative.

58. Let **quantity A** = $7\sqrt{5}$ and **quantity B** = $9\sqrt{3}$; Then what is the comparison of A and Quantity B
- A. A=B B. A<B C. A>B D. A&B cannot compare
59. Suppose **quantity A** = $5^{87} + 5^{87} + 5^{87} + 5^{87}$ and **quantity B** = 5^{88} ; Then compare A and B.
- A. A=B B. A<B C. A>B D. A&B cannot compare
60. Let $0 < x < 1$ with **quantity A** = x^2 , **quantity B** = $\sqrt{x}$ and **quantity C** = x ; compare the **quantity A, B and C**
- A. A>B B. A>C C. C>B D. B>A
61. **Quantity A** = $\frac{9}{10}$ and **quantity B** = $\frac{10}{11}$ Compare A & B.
- A. A>B B. A=B C. A<B D. A and B are not comparable

Instruction: question 61-65 data interpretation and analysis using the given table marks of student and choose the correct answer from the given alternative

Year	No of quintals produced by each farmer	No of farmers in village A	No of farmers in village B	No of farmers in village C
2014	5	10	5	2
2015	7	5	4	10
2016	4	8	6	8
2017	2	12	9	5
2018	3	9	5	7

62. From the above data how many quintals of wheat produced in 2014?
A. 23 B. 75 C. 85 D. 500
63. How many farmers are produced below 6 quintal per year
A. 86 B. 105 C. 115 D. 126
64. What is the median quintal produced in village B?
A. 3 B. 4 C. 5 D. 6
65. What is the average quintals produced per year
A. 2.47 B. 3.47 C. 4.47 D. 5.47