

LIDETA SUB CITY ADMINISTRATION EDUCATION OFFICE GRADE 12 SCHOLASTIC APTITUDE TEST (SAT) MODEL EXAMINATIONS

2016E.C/ 2024G.C

NUMBER OF QUESTIONS: 60

TIME ALLOWED: - 2 HOURS

GENERAL DIRECTIONS

THIS MODEL EXAMINATION CONTAINS 60 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)

This section contains a total of **35** verbal reasoning questions with subsection of analogy, synonyms, antonyms, language usage, sentence completion, reading comprehension and logical reasoning. Each subsection has its own directions.

Analogy

DIRECTIONS: For questions **1-8** identify the relationship that exists between each pairs of words presented in capital letters and determine which of the following four pairs of words maintains the same logical relationship. Then, **blacken** the letter of your choice on the separate answer sheet provided.

1.	HANDSOME:	BEAUTIFUL: H	USBAND:			
	A. Woman	B. Wi	fe	C. Girl		D. She
2.	MONDAY: AF	PRIL:: FRIDAY:_				
	A. July	B. Satu	ırday	C. August		D. Tuesday
3.	: PLAY	C :: SING : ANTH	IAM			
	A. Act	B. Scene	C. Thea	itre	D. Fiel	ld
4.	SPOKE:	:: WORD : SE	NTENCE			
	A. Speaker	B. paragrap	h C. c	omma	D. whe	el
5.	: COUH	RSE :: MENU : M	IEAL			
	A. Chef	B. cafeteria	C. c	olleges	D. S	yllabus
6.	MEAN : AVE	RAGE :: KIND :				
	A. Hurtful	B. M	leaning	C. varie	ty	D. kindness
7.	An EMBASSY	is to AMBASSA	DOR as	is EAG	LE.	
	A. mouse	B. flag	C. hawk	D. nest		
8.	HERD is to CO	W as	to DOLPHIN.			
	A. ocean	B. pod	C. porpoi	se D	. leap	

Synonyms

DIRECTIONS: For questions 9-10, read each of the following words carefully and choose the word that is most nearly **similar** in meaning to the word in capital letters and **blacken** the letter of your choice on the separate answer sheet.

9. INNOCUOUS

A. Harmless	B. Poisonous	C. Ferocious	D. Deadly
10. MILD			
A. Rude	B. Bad	C. Gentle	D. Angry

Antonyms

DIRECTIONS: For questions 11-12, read each of the following words carefully and choose the word that is most nearly **opposite** in meaning to the word in capital letters and **blacken** the letter of your choice on the separate answer sheet.

11. IllEGIBLE			
A. Imitable	B. clean	C. readable	D. clear
12. RELIQUISH			
A. Attack	B. Retain	C. conquer	D. withdraw

Language Usage

DIRECTIONS: For questions **13-15**, below choose the option that is most nearly has the same meaning as the underlined word from the given alternatives and **blacken** the letter of your choice on the separate answer sheet.

13. He is worried about his bread and butter these days.

A. promotional avenue	C. comfortable living
B. money making	D. means of livelihood
14. The old man is <u>hard of hearing.</u>	
A. does not pay attention	C. somewhat deaf
B. felt bad hearing news	D. unmindful
15. My friend had to pay through his no	se for his brand new sports bike.
A. Pay an extremely high price	C. pay a reasonable price
B. pay huge loans	D. pay after getting discount.

Sentence completion

DIRECTIONS: questions 16-21, below has one or two blanks. Each blank indicates that something has been omitted. Beneath the sentences have four or two sets of words. Choose a word or set of words that best fits the meaning of the sentences as a whole and **blacken** the letter of your choice on the separate answer sheet.

16. Challenges must be ______to realize the ______of a greater regional economic integration.

- A. overcome : Potential C. Suppressed : power
- B. Ignored : benefits D. attempted : battles

17. He's got a sharp	He might	just get into troubl	e, if he isn't ca	reful.	
A. tongue	B. mouth	C. intellect	D. vision		
18. It was clear that	there was no ration	ale behind his act	; he went lone	ly by his	and
somehow succeed	led.				
A. logic	B. Interpretation	C. int	uition	D. Analysis	
19. I have never	such problem	and therefore confe	ess I have no _	to it.	
A. left alone :	inhibitions	C.	chickened at :	solution	
B. come acros	ss : ready-made ans	wer D. 1	marveled at : co	ompulsions	
20. Our Job as tead enthusiasm.	cher is to	the thirst for k	nowledge and	the	spark of
A. quench : Ig	gnite	C. sensitize :	douse		
B. substantiat	e : quell	D. sustain : n	nitigate		
21. The news is too g	good				
A. to be bad		C. to b	e true		
B. to be accept	otable	D. and	l can be credibl	le	

Reading Comprehension

DIRECTIONS: Read passages I and II below and answer the questions that follow each passage on the basis of what is stated or implied in the passages. Then, **blacken** the letter of your choice on the separate answer

sheet provided.

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Reading passage I

Knowledge of grammar is essential for good speaking and writing, by which one's mind is judged. Studying grammar is hard work: it must be learned in its entirety, with no parts left out, and it demands a lot of thoughts and patience. But, once achieved, it can give you a lifetime of joy and profit. Its study requires no physical hardship, no special room or expense. If people spend their free time studying grammar, they can master it in a year. The author learned this in less than a year. Earning sixpence, a day as a private soldier, he studied in his bed. Not being able to afford candles or oil, he read by the fire in winter. If he could manage it this way, and without any outside encouragement, any young man, however poor or busy, could do it.

- 22. How does the author describe the study of grammar?
 - A. easy and not demanding C. hard work with lots of thought and patience.
 - B. physical hardship D. no need for effort.
- 23. Can any young man master grammar according to the author?
 - A. Only free and wealthy individuals can. C. any one can do it.
 - B. only the author could do it. D. cannot be determined.
- 24. Which one of the following is **true** about the passage?
 - A. The only skill that gives you joy is grammar.
 - B. Studying grammar is not limited to the classroom.
 - C. Soldiers can learn grammar better than anyone else.
 - D. You should study grammar only when you are in bed.

Reading passage II

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Life is short, but the work we are called to do is vast. So without wasting time, plan how to make the best use of available time. If the timing is not right, we will leave a lot of work undone when we leave the earth. There is a heavy price to pay for wasting time. Lost time never comes back. Once gone, neither wealth nor prayers can bring it back. Through a good regimen; lost health is regained through hard work. But time once lost is lost forever. Children should be trained to develop the habit of punctuality. They should be taught not to put off for tomorrow what should be done today.

25. Why is important to plan how to make the best use of time?

- A. The work we are expected to do is vast. C. Time is infinite
- B. Time is not important D. Time is not valuable resource.

26. One of the following can be the negative consequence of wasting time.

A. much time is gainedB. Time is regainedC. work is left undone.D. people may be busy.

- 27. What should we teach our children according to the passage?
 - A. To put off for tomorrow what should be done today.
 - B. To do what needs to be done today.
 - C. To do as little as possible.
 - D. To waste time effectively.

28. One of the following is false about the above passage?

- A. No one can regain lost time.
- B. We should invest every minute at work.
- C. There is nothing as precious as time.
- D. If you are wealthy and good prayer, you can regain time.

Logical reasoning

In each question below is given a statement followed by two conclusions numbered I and II. You have to assume the statement true, then consider the conclusions and decide which of them logically follows beyond a reasonable doubt from the information given in the statement. Then, blacken the letter of your choice on the separate answer sheet provided.

29. Statement : population increase coupled with the depleting resources is going to be the

scenario of many developing countries in days to come.

Conclusions : I. The population of developing countries will not continue to in the future.

II. It will be very difficult for the government of developing countries to provide

Its people decent quality of life.

- A. Only conclusion I follows. C. Either I or II follows
- B. Only conclusion II follows. D. Both I and II follow.
- 30. **Statement** : All Indians are patriotic.

Conclusions : I. Americans are not patriotic.

II. Every citizen should love his/her nation.

- A. Only conclusion I follows. C. Either I or II follows
- B. Only conclusion II follows. D. Neither I nor II follow.

31. Statement : Politics is one of the most commonly debated topics in Ethiopian media.

Conclusions : I. Every Ethiopians love politics.

II. Majority of Ethiopian audiences like to discuss political issues.

- A. Only conclusion I follows. C. Either I or II follows
- B. Only conclusion II follows. D. Both I and II follow.

32. **Statement :** The bad behavior of any students results in the defamation of himself and the school.

Conclusions : I. The rules followed in the school are not proper.

II. Such a student should be expelled from the school.

- A. Only conclusion I follows.C. Neither I nor II follows.
- B. Only conclusion II follows. D. Both I and II follow.

DIRECTIONS: For questions 33-35, different kinds of logical reasoning items are presented.

Read the data given carefully and choose the best answer.

33. If you arrange the words in numbered in a meaning full, logical way and connect them, it will give you some kind of meaningful story. The correct order will be _____.

	1.sun	2. Rain	3. Child	4. Rainbow	5. Нарру
A. 2, 1, 4,	3, 5		C. 2,1,	3,4,5	
B. 3, 2, 1,	4, 5		D. 4,5	,1,3,2	

34. Pointing to a woman, a man said, "Her father is the only son of my father." How is the man related to the woman?

A. Grandfather.	C. Son
B. Father.	D. uncle.

35. In a certain **coding system**, If GO=32, SHE=49, then COME will be equal to _____.

B. 26. D. 72.

SECTION TWO: Quantitative Reasoning (Questions 36-60)

DIRCTIONS: Solve each of the problems given in question **36-60** below and select the best answer from the given alternatives.

- 36. A train running at the speed of $60 \frac{km}{hr}$ crosses a pole in 9 seconds. What is the length of the train?
- A. 180*m* B. 324*m* C. 120*m* D. 150*m*
- 37. A can do a work 15 *days* and B in 20 *days*. If they work on it together for 4 *days*, then the fraction of the work that is left is:
 - A. $\frac{1}{4}$ B. $\frac{8}{15}$ C. $\frac{1}{10}$ D. $\frac{7}{15}$
- 38. Suppose the ball is dropped from a height of 20m and that is always rebounds to a height equals to one half the distance from which it fails. If we let the ball bounce forever what is the total distance it would travel until to rest.

A. 45*m* B. 60*m* C. 75*m* D. 120*m*

39. A man buys a cycle for 1400 *Birr* and sells it at a loss of 15%. What is the selling price of the cycle?

- 40. A man walked diagonally across a square lot. Approximately, what was the percent saved by not walking along the edges?
 - A. 20 B. 24 C. 33 D. 30
- 41. If the line passing through (x, y) and (-1, 2) has a slope of 3 and the line passing through (x, y) and (2, -1) has slope of 1, then (x, y) equals to:
 - A. (-4, -7) B. (4,7) C. (4, -7) D. (-4,7)

42. Two dice are rolled and the numbers on the top are added. What is the probability that the sum of the two numbers on top is 10?

A.
$$\frac{1}{2}$$
 B. $\frac{1}{12}$ C. $\frac{5}{6}$ D. $\frac{1}{6}$
43. If $f(x) = x^2 - 4x + 6$, then $f(x - 1)$ is equal to:
A. $x^2 - 4x + 7$ B. $x^2 - 4x + 3$ C. $x^2 - 6x + 11$ D. $x^2 - 6x$

- 44. If the system of linear equation $\begin{array}{l} ax + 2y = 6 \\ 6x 4y = 8 \end{array}$ has no solution, what is the possible value of a?
 - A. 2 B. 3 C. -2 D. -3

45. The sum of four consecutive odd integers w, x, y and z is 24. What is the meadian of the set $\{w, x, y, z, 24\}$

A. 3 B. 5 C. 7 D. 9

46. If Ethiopia imports increased by 20 percent and exports decreased by 10 percent during a certain year. The ratio of imports to exports at the end of the year was how many times the ratio at the beginning of the year.

A. $\frac{12}{11}$ B. $\frac{4}{3}$ C. $\frac{11}{8}$ D. $\frac{3}{2}$ 47. Let $x \neq -1, x \neq 2$ and $x \neq -\frac{1}{4}$. Then $\left(\frac{1}{x+1} + \frac{3}{x-2}\right) \div \left(\frac{4x+1}{2x-4}\right)$ equals: A. $\frac{4x+1}{x+1}$ B. $\frac{2}{x-2}$ C. $\frac{4x-3}{(x+1)(x-2)}$ D. $\frac{2}{x+1}$

48. Kebede spent 12 minutes on his English homework and 15.12 minutes on his Mathematics homework. What percent more time does Kebede spent on his Mathematics homework?
A. 12
B. 26
C. 52
D. 24

49. Given that x and y are negative numbers. Where quantity A is x + y and quantity B is x - y. Which of the following is true about the relationship between quantities A and B.

A. A < B B. B < A C. A = B D. Cannot be determined 50. Suppose quantity $A = 2^{12} + 2^{12} + 2^{12} + 2^{12}$ and quantity $B = 8^{12}$

A. B > A B. A > B C. A = B D. Cannot be determined 51. The bag contains 6 black and 8 white balls. One ball is drawn at random. what is the probability that the ball drawn is white.

A. $\frac{3}{7}$ B. $\frac{1}{8}$ C. $\frac{3}{4}$ D. $\frac{4}{7}$

52. A sum of money is to be distributed *A*, *B*, *C*, *D* in the proportion of 5: 2: 4: 3. If *C* 1000 *Birr* more than *D*, what *B*'s share?

A. 500BirrB. 1500BirrC. 2000BirrD. 2500Birr53. The sum of the first 45 natural numbers is:

A. 1035 B. 2070 C. 1280 D. 2140

54. A man has some hens and cows. If the number of heads be 48 and the number of feet equals140, then the number of hens will be:

A. 22 B. 24 C. 23 D. 26

55. A man took loan from a bank at the rate of 12% simple interst. After 3 years he had to pay 5400*Birr* interest only for the period. The principal amount borrowed by him was?

A. 2,000*Birr* B. 10,000*Birr* C. 15,000*Birr* D. 20,000*Birr*

Questions 56-60 are based on the table below, which gives the expenditure of a firm (in millions of birrs) per annum over the given years.

Year	Item of expenditure				
	Salary	Fuel and	Bonus	Interest on	Taxes
		Transport		Loans	
2010	314	92	3	24	85
2011	258	110	2.5	33	71
2012	732	131	3.4	28	112
2013	450	104	2.6	31	98
2014	370	125	3.8	42	93

56. The total expenditure of firm over these items during the year 2012 is:

A. 1060.4 B. 1006.4 C. 1064.4 D. 1640.4

57. What is the average amount of tax per year. Which of the firm had to pay during the whole period?

A. 82.5 B. 76.5 C. 91.8 D. 114.75

58. Total expenditure on all these items in the year 2010 was approximately what percent of the expenditure in the year 2014?

A.	81.73	B. 83.71	C. 80.12	D. 78.25
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59. The total amount of bonus paid by the firm during the whole period is approximately what is percent of the total amount of interest on loans paid during this period?

A.6.8B.8.7C.9.7D.7.860. What is approximate ratio between the total expenditure on interest on loans for all the years
and total expenditure on fuel and transport for all the years?D.7.8

A. 7:25 B. 7:35 C. 7:30 D. 7:40