ADDIS ABABA CITY GOVERNMENT

YEKA SUB CITY EDUCATION OFFICE

SCHOLASTIC APTITUDE MODEL TEST (SAT) FOR GRADE 12 Ginbot 2012/May 2020

TIME ALLOWED: 2 HOURS

GENERAL DIRECTIONS

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.** VISUALY IMPAIRED CANIDATES ARE REQUIRED TO ATTEMPT **VERBAL REASONING SECTION 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 **ONE HOUR** ONLY. 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 INSTRUCTIONS.

ANY FORM OF CHEATING OR AN ATTEMT TO CHEAT IN THE EXAMINATION HALL 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.

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SECTION ONE: Verbal Reasoning (Questions 1-35)

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

Analogy

DIRECTIONS: QUESTION **(1-5)** deal with analogy. In question 1-5 related pair of words are followed by a word that has **similar** relationship when paired with another word. Answer these questions by selecting the choice that completes the given analogy correctly by **shading** the letter of the correct choice on the separate answer sheet.

1. REPTILE is to LIZARD as FLOWER is to _____.

(A) Petal. (C) Daisy

(B) Stem. (D) Alligator.

2. IMMORAL : ETHICAL :: INSUFFICIENT : _____.

(A) Ample (C) Unscrupulous

(B) Dishonest (D) Inert

3. AMATEUR: NOVICE :: REPRESENTATIVE : _____.

(A) Opposition (C) Author

(B) Proxy (D) Philosopher

4. HORSE is to STABLE as LION is to _____.

(A) Kennel (C) Stable

(B) Nest (D) Den

5. PRIDE is to LION as SCHOOL is to _____.

(A) Teacher (C) Fish

(B) Student (D) Self-respect

Synonyms

DIRECTIONS: Questions **6-7** 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. Lockdown

(A) Inclusion
(B) Isolation
(C) Imprison
(D) Detain

7. Prevalent

(A) Wind
(B) Servile
(C) Rare
(D) Widespread

Opposites

DIRECTIONS: Questions **(8-9)** consists of a word printed in capital letters, 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.

8. Impartial

(A) Hostile
(B) Biased
(C) Dislike
(D) Worried

9. Malodorous

(A) Acrid
(B) Pungent
(C) Fragrant
(D) Delicious

Language Usage

DIRECTIONS: each of the questions below **(10-13)** consists of underlined word or phrase. From 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.

10. The editor, preferring a more **terse** writing style, cut 500 words from the 2,000-word article.

(A) elegant.
(B) factual.
(C) descriptive
(D) Concise.

11. The suspect gave a **plausible** explanation for his presence at the scene, so the police decided to look elsewhere for the perpetrator of the crime.

(A) unbelievable
(B) credible
(C) insufficient
(D) apologetic

12. I shouldn't go outside without a raincoat because **it's raining cats and dogs.**

(A) it's just started to rain
(C) it's raining very heavily
(B) it's going to rain
(D) it's raining a little

13. When the business folded, he took **the lion's share** of the assets.

(A) the biggest part
(C) the easiest part
(B) the smallest part
(D) the only part

Sentence Completion

DIRECTIONS: Each sentence **(14-18)** below has one or two blanks, each blank indicating that something 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 separate answer sheet.

14. If your drinking water is not _____, it could cause serious health problems.

(A) quenchable
(C) indignant
(B) valid
(D) potable

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

(A) legible
(C) punctual
(B) tolerable
(D) belligerent

16. Because of his _____ sense of his own importance, Abel often tried to _____ our activities.

(A) exaggerated --- monopolize
(C) insecure --- violate
(B) inflated --- autonomize
(D) modest --- dominate

17. Peter, _____ by repeated rejections of his novel, _____ to submit his manuscript to other publishers.

(A) encourage --- declined
(C) elated --- planned
(B) undaunted --- continued
(D) inspired --- complied

18. Halima, a passionate woman, agreed to marry a rich, _____ neighbor even though she loved a(an) ____, uneducated orphaned.

(A) sophisticated --- orphaned

C) opulent --- unschooled

(B) indigent --- impoverished

(D) educated --- poor

Reading Comprehension

DIRECTIONS: Read passages I and II below carefully and answer questions **19-26** based on the information stated or implied in the passages. Then find the question number and **blacken** the letter of your choice on the separate answer sheet.

Reading Passage I

WARNING: Antihistamines can cause drowsiness, so you should avoid driving or other operations that demand alertness, coordination, or ***dexterity***. Do not use this product if you are ***intolerant to aspirin***. Allergic reactions may occur in ***susceptible*** persons.

19. What is the meaning of the word ***dexterity*** as it is used in the passage?

(A) balance

(C) clumsiness

(B) agility

(D) gait

20. What is the meaning of the phrase ***intolerant to aspirin*** as it is used in the passage?

(A) unable to absorb aspirin without adverse effects

(B) disliking the effects of aspirin

(C) unaffected by the healing effects of aspirin

(D) needing a stronger medication than aspirin

21. What is the meaning of the word ***susceptible*** as it is used in the passage?

(A) adaptable

(C) malleable

(B) robust

(D) sensitive

Reading Passage II

On February 3, 1956, Autherine Lucy became the first African-American student to attend the University of Alabama, although the dean of women refused to allow Autherine to live in a university dormitory. White students rioted in protest of her admission, and the federal government had to assume command of the Alabama National Guard in order to protect her. Nonetheless, on her first day in class, Autherine bravely took a seat in the front row. She remembers being surprised that the professor of the class appeared not to notice she was even in class. Later, she would appreciate his seeming indifference, as he was one of only a few professors to speak out in favor of her right to attend the university.

For protection, Autherine was taken in and out of classroom buildings by the back door and driven from class to class by an assistant to the university president. The student continued to riot, and one day, the windshield of the car she was in was broken. University officials suspended her, saying it was for her own safety. When her attorney issued a statement in her name protesting her suspension, the university used it as grounds for expelling her for insubordination. Although she never finished her education at the University of Alabama, Autherine Lucy's courage was an inspiration to African-American students who followed her lead and desegregated universities all over the United States.

22. According to the passage, what did Autherine Lucy do on her first day at the University of Alabama?

(A) She moved into a dormitory.

(B) She sat in the front row of her class.

(C) She became terrified of the white rioters.

(D) She was befriended by an assistant to the university president.

23. Based on the information in the passage, which of the following best describes Autherine Lucy?

(A) quiet and shy

(B) clever and amusing

(C) courageous and determined

(D) overly dramatic

24. When she began classes at the university, Autherine Lucy expected to

(A) stand out from the other students.

(B) have the support of the university faculty.

(C) join an African-American organization for protection.

(D) be ridiculed by the professors.

25. Autherine Lucy never graduated from the University of Alabama because she

(A) moved to another state.

(B) transferred to another university.

(C) dropped out because of pressure from other students.

(D**)** was expelled for insubordination.

26. According to the passage, which of the following is true?

(A) The Alabama National Guard is normally under the command of the U.S. Army.

(B) In 1956, the only segregated university in the United States was in Alabama.

(C) Autherine Lucy was escorted to and from class by the university president's assistant.

(D) A few white students at the university were pleased that Autherine Lucy was a student there.

Logical and Analytical Reasoning

DIRECTIONS: questions **27-35** 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 find the correct question number and **blacken** the letter of your choice on the separate answer sheet.

27. Fact 1: All chickens are birds.

Fact 2: Some chickens are hens.

Fact 3: Female birds lay eggs.

If the first three statements are facts, which of the following statements must also be a fact?

I. All birds lay eggs.

II. Hens are birds.

III. Some chickens are not hens.

(A) II only (B) II and III only (C) I, II, and III (D) None of the statements is a known fact.

28. Fact 1: Robert has four vehicles.

Fact 2: Two of the vehicles are red.

Fact 3: One of the vehicles is a minivan.

If the first three statements are facts, which of the following statements must also be a fact?

I. Robert has a red minivan.

II. Robert has three cars.

III. Robert's favorite color is red.

(A) I only (C) II and III only

(B) II only (D) none of the statements is a known fact.

Question 29-30 are based on the following paragraph

The competitive civil-service system is designed to give candidates fair and equal treatment and to ensure that federal applicants are hired based on objective criteria. Hiring has to be based solely on a candidate's knowledge, skills, and abilities (which you'll sometimes see abbreviated as ksa), and not on external factors such as race, religion, sex, and so on. Whereas employers in the private sector can hire employees for subjective reasons, federal employers must be able to justify their decision with objective evidence that the candidate is qualified.

29. The paragraph best supports the statement that

(A) hiring in the private sector is inherently unfair.

(B) ksa is not as important as test scores to federal employers.

(C) federal hiring practices are simpler than those employed by the private sector.

(D) the civil service strives to hire on the basis of a candidate's abilities.

30. The federal government's practice of hiring on the basis of ksa frequently results in the hiring of employees

(A) based on race, religion, sex, and so forth.

(B) who are unqualified for the job.

(C) who are qualified for the job.

(D) on the basis of subjective judgment.

Questions 31-33 are based on the following situations

31. The school principal has received complaints from parents about bullying in the school yard during recess. He wants to investigate and end this situation as soon as possible, so he has asked the recess aides to watch closely. Which situation should the recess aides report to the principal?

(A) A girl is sitting glumly on a bench reading a book and not interacting with her peers.

(B) Four girls are surrounding another girl and seem to have possession of her backpack.

(C) Two boys are playing a one-on-one game of basketball and are arguing over the last basket scored.

(D) Three boys are huddled over a handheld video game, which isn't supposed to be on school grounds.

32. A study of residents in a remote district found that two-thirds of the children developed considerable level of nearsightedness after starting school, while their illiterate parents and grandparents, who had no opportunity for formal schooling showed no signs of this disability

If the above statement is true, which of the following conclusions is most strongly supported by them?

(A) The nearsightedness in the children is caused by school work.

(B) Only literate people are nearsighted.

(C) Only people who have the opportunity for formal schooling develop nearsightedness.

(D) One-third of the children are near sighted.

33. A Guarantee is a promise or assurance that attests to the quality of a product that is either (1) given in writing by the manufacturer or (2) given verbally by the person selling the product. Which situation below is the best example of a **Guarantee**?

(A) Mohammed purchases a DVD player with the highest consumer ratings in its category.

(B) The salesperson advises Curt to be sure that he buys an air conditioner with a guarantee.

(C) The local auto body shop specializes in refurbishing and selling used cars.

(D) Hailu buys a used digital camera from his coworker who says that he will refund Hailu's money if the camera's performance is not of the highest quality.

For questions 34- 35, find the statement that must be true according to the given information.

34. On weekends, Mr. Sanchez spends many hours working in his vegetable and flower gardens. Mrs. Sanchez spends her free time reading and listening to classical music. Both Mr. Sanchez and Mrs. Sanchez like to cook.

(A) Mr. Sanchez enjoys planting and growing vegetables.

(B) Mr. Sanchez does not like classical music.

(C) Mrs. Sanchez cooks the vegetables that Mr. Sanchez grows.

(D) Mrs. Sanchez enjoys reading nineteenth century novels.

35. Ten new television shows appeared during the month of September. Five of the shows were sitcoms, three were hour-long dramas, and two were news-magazine shows. By January, only seven of these new shows were still on the air. Five of the shows that remained were sitcoms.

(A) Only one of the news-magazine shows remained on the air.

(B) Only one of the hour-long dramas remained on the air.

(C) At least one of the shows that was cancelled was an hour-long drama.

(D) Television viewers prefer sitcoms over hour-long dramas.

SECTION TWO: Quantitative Reasoning (questions 36-60)

Direction: solve each of the problems given in question 36-55 below and select the best answer from the given alternatives and blacken the letter of your choice on the separate answer sheet provided.

36. Which of the following is the largest?

A. $\frac{8}{10}$ of 20 C. $\frac{1}{2^{-5}}$

B. 12 is more than the square of 8 D. 2.5%of 300

37. The arithmetic mean (average) of 41, 45, 50, and y is 150. What is the value of y?

A. 464 B. 236 C. 600 D. 365

38. If 8x+8y=18 and $x^2 - y^2 = \frac{-3}{8}$, then, what is the value of 2x-2y?

A. $\frac{1}{3}$ B. $\frac{1}{6}$ C. $\frac{-1}{3}$ D. $\frac{-1}{6}$

39. What is the missing number in the series 4, 11,8,19, 12, __?

A. 30 B. 25 C. 20 D. 27

40. The present age of a father is 3 years more than three times the age of his son .three years, hence, fathers age will be 10 years more than twice at the age of the son. What is the present age of the father?

A. 23 B. 33 C. 43 D. 53

41. If $\frac{18}{r+10} = \frac{3}{r}$, then what is the value of $\frac{r}{3}$?

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

42. A bottle of medicine containing 4kg is to be poured into smaller containers that hold 16 grams each. How many of these smaller containers can be filled from the 4kg bottle?

A. 1 B. 5 C. 50 D. 250

43. If a number is subtracted by two-third of 75 present of 600, the value so obtained is 320. What is the number?

A. 300 B. 620 C. 720 D.500

44. A man bought a face mask marked 0.2 off for birr 156. How much did the face mask cost originally?

A. 156 B. 175 C. 195 D. 205

45. Let x = 2y: quantity: A= $\left[\frac{x}{y} + \left(\frac{y}{x}\right)^2\right]$ and quantity: B = $\left[\frac{y}{x} + \left(\frac{x}{y}\right)^2\right]$, then which of the following is true?

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

46. Suppose that m and n are integers. If m + n<9 and m>4, what is the smallest possible value of m-n?

A. 1 B. 0 C. 3 D. 2

47. Thirty nine per cent of 695 is equal to10% of what number?

A. 2800 B.2400 C. 3200 D. 3100

48. If two times a number is equal to that number minus 4, what is the number?

A. -7 B. -6 C. -4 D. -3

49. If the numerator of a fraction is increased by 2 and the denominator of the fraction is increased by 2.5, the resulting fraction is $\frac{3}{4}$. What is the original fraction?

A. $\frac{4}{9}$ B. $\frac{4}{5}$ C. $\frac{1}{6}$ D. $\frac{2}{3}$

50. For the equations $\frac{a^x}{a^y} = a^{10}$ and $(a^y)^3 = a^x$, if a>1, what is the value of x?

A. 5 B. 10 C. 15 D.20

51. An acidic solution is mixed so that the mass ratio of nitric acid to water is 2:7. If a total of 270 grams of acid solution is mixed, How many more grams of water are there than the nitric acid?

A. 210 B. 150 C. 110 D. 60

52. A can do a work in 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. $\frac{1}{10}$ B. $\frac{1}{4}$ C. $\frac{7}{15}$ D. $\frac{8}{15}$

53. The sum of the square two consecutive even number is 6500. Which is the smallest number?

A. 54 B. 56 C. 48 D. 52

54. If x= -2, then what is the value of $(86x^3 + 46x^2 - 24x - 3)(4x+8)$?

A. 3118 B. 0.866 C. 3127 D. 0.000

55. When 0.0005 is written as 5.0 X 10^n, what is the value of n?

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

Data Interpretation Questions (56-60)

Direction (Questions 56-60): Study the following table carefully and answer the questions given below it.

NUMBER OF CANDIDATES APPEARED AND QUALIFIED UNDER

VARIOUS DISCIPLINES IN AN EXAMINATION OVER THE YEARS

YEAR	ARTS		SCIENCE		COMMERCE		AGRICULTURE		ENGINEERING		TOTAL	
	APP.	Qual.	App.	Qual.	App.	Qual.	App.	Qual.	App.	Qual.	App.	Qual.
1998	850	200	1614	402	750	212	614	170	801	270	4629	1254
1999	1214	315	1826	420	800	220	580	150	934	350	5354	1455
2000	975	250	1970	500	860	260	624	160	742	300	5171	1470
2001	820	196	1560	450	842	300	490	160	850	312	4562	1418
2002	1412	378	2120	625	1105	320	760	200	642	301	6039	1824
2003	738	359	3506	880	1240	308	640	210	962	400	7086	2157

56. In which of the following disciplines was there a continuous increase in the number of candidates appeared over the given years?

A. Agriculture C. Arts

B. Science D. cannot be determined

57. What was the percentage drop in number of candidates qualified in Science discipline from 2000 to 2001?

A. 10 C. 20

B. 25 D. 50

58. The number of candidates appeared under Agriculture in 2001 was approximately what percentage of number of candidates qualified under Arts in 2000?

A. 400 C. 200

B. 100 D. 2 0

59. In which of the following years was the percentage of total number of candidates of all the disciplines together qualified to the appeared ones, the maximum?

A. 1999 C.2000

B. 2001 D. 2002

60. In which of the following years was the percentage of qualified to the appeared ones in engineering discipline the maximum?

A 2000 C.2001

B. 2003 D. 2002

THE END