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SCHOLASTIC APTITUDE TEST
TIKIMTE 2014/ 15 (OCTOBER 2022)

BOOKLET CODE: 060
Number of Items: 60

SUBJECT CODE: 03
Time Allowed: 2 hours

SECTION ONE: Verbal Reasoning (Questions 1-35)

This section which is subdivided into analogy, synonyms, antonyms, sentence completion, reading comprehension, analytical and logical reasoning contains 35 verbal reasoning items altogether. Each subsection is followed by its specific direction.

Analogy (1- 5)

Directions: To answer the items 1-5, 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.

1. MARATHON is to RACE as HIBERNATION is to _____
   A. Winter
   B. Dream
   C. Sleep
   D. Bear

2. CUP is to COFFEE as BOWEL is to _____
   A. Dish
   B. Soup
   C. Spoon
   D. Food

3. EMBARRASSED is to HUMILAITED as FRIGHTENED is to _____
   A. Terrified
   B. Agitated
   C. Courageous
   D. Reckless

4. OPTIMIST is to CHEERFUL as PESSIMIST is to: _____
   A. Petty
   B. Gloomy
   C. Mean
   D. Helpful

5. COBBLER is to SHOE as CONTRACTOR is to: _____
   A. Horse
   B. Stone
   C. Boot
   D. Building

Synonyms (6-9)

Directions: Questions 6-9 consist of sentences in which one word is written in bold followed by four other words. Choose the word that is **most nearly similar** in meaning to the word in **bold**. Then, blacken the letter of your choice on the separate answer sheet provided.

6. The spies conducted a **covert** operation, without being noticed by anyone.
   A. dangerous
   B. foreign
   C. hidden
   D. illegal

7. The designer window treatment in her house, installed 17 years ago, were **outmoded** and thus needs to be changed.
   A. unnecessary
   B. unimportant
   C. outlawed
   D. outdated

8. She showed a **blatant** disregard for the rules.
   A. obvious
   B. hidden
   C. respectful
   D. rebellious

9. The interior of the hotel is so **repulsive** that everybody returns as soon as they enter it.
   A. Ugly
   B. Repugnant
   C. bright
   D. attractive

Antonyms (10 -12)

Directions: Questions 10-12 consist of sentences in which one word is written in bold followed by four other words. Choose the word that is **most nearly opposite** in meaning to the word in **bold**. Then, blacken the letter of your choice on the separate answer sheet provided.

10. The guest made **derogatory** remarks about the food he was served and by doing so he proved to be ungrateful and disrespectful.
    A. interesting
    B. unnecessary
    C. complimentary
    D. cheerful

11. All of his brothers like milk but he has a strong **aversion** for it.
    A. dear
    B. love
    C. care
    D. hate

12. The inhabitants of the island were **barbarians** who have never lived in the modern world.
   A. civilized
   B. cruel
   C. bad
   D. hate

Sentence completion (13-17)

Directions: Each sentence below has one blank space followed by four options. Choose the option that best fits the meaning of the sentence as a whole and **blacken** the letter of choice on the separate answer sheet provided.

13. The weather outside was extremely pleasant and hence we decided to _____.
   A. utilize our time watching the television
   B. refrain from going out for a morning walk
   C. enjoy a morning ride in the open
   D. employ this rare opportunity for writing letters

14. She never visits any zoo because she is a strong opponent of the idea of _____.
   A. setting the animal free into the forest
   B. holding the animal in captivity for our joy
   C. feeding the animals while others are watching
   D. going out of the house on a holiday

15. I felt somewhat more relaxed _____.
   A. but tense as compared to earlier
   B. and tense as compared to earlier
   C. as there was already no tension at all
   D. and tension free as compared to earlier

16. Practically, very little work could be completed in the last week as it was _____.
   A. full of holidays
   B. full of working days
   C. a very busy week
   D. a very hectic week

17. Despite all the efforts made to stop the war, _____.
   A. the two groups agreed to negotiate
   B. the two groups do not seem to continue fighting
   C. the two groups seem determined to continue fighting
   D. the two groups expressed interest for peace

Reading Comprehension I (18 -22)

Directions: Read the passage carefully and answer questions **18-22**. Each question is based on the information stated or implied in the passage. Then **blacken** the letter of your choice on the answer sheet provided.

(1)Mental and physical health professionals may consider referring clients and patients to a music therapist for a number of reasons. It seems a particularly good choice for the social worker who is coordinating a client's case. Music therapists use music to establish a relationship with the patient and to improve the patient's health, using highly structured musical interactions. Patients and therapists may sing, play instruments, dance, compose, or simply listen to music.

(2)The course of training for music therapists is comprehensive. In addition to formal musical and therapy training, music therapists are taught to discern what kinds of interventions will be most beneficial for each individual patient. Because each patient is different and has different goals, the music therapist must be able to understand the patient's situation and choose the music and activities that will do the most toward helping the patient achieve his or her goals. The referring social worker can help this process by clearly communicating each client's history.

(3)Although patients may develop their musical skills, that is not the main goal of music therapy. Any client who needs particular work on communication or on academic, emotional, and social skills, and who is not responding to traditional therapy, is an excellent candidate for music therapy.

Adapted from Oxford Practice Book

18. Which of the following best sumarises the main idea of paragraph 1?
   A. music therapy and social work
   B. using music therapy
   C. a typical music therapy intervention
   D. locating a music therapist

19. Which of the following best organizes the main ideas of paragraph 3?
   A. Referring patients to music therapists.
   B. Training for music therapists
   C. Skills addressed by music therapy
   D. Who benefits form the music therapy.

20. Which of the following would be the most appropriate title for this passage?
   A. How to Use Music to Combat Depression through Music Therapy
   B. What Social Workers Need to Know about Music Therapy
   C. Training for a Career in Music Therapy and its use
   D. The Social Worker as Music Therapist and the training they need

21. According to the information presented in the passage, music therapy can be prescribed for social work clients who
   A. need to develop coping skills.
   B. were orphaned as children.
   C. need to resolve family issues.
   D. need to improve social skills.

22. Which of the following inferences can be drawn from the passage?
   A. Music therapy can succeed where traditional therapies have failed.
   B. Music therapy is a relatively new field.
   C. Music therapy is particularly beneficial for young children.
   D. Music therapy is only appropriate in a limited number of circumstances.

Reading Comprehension II (23 -27)

Directions: Read the passage carefully and answer questions **23-27**. Each question is based on the information stated or implied in the passage. Then **blacken** the letter of your choice on the answer sheet provided.

To read a lot is essential. It is stupid not to venture outside the examination "set books" or the textbooks you have chosen for the intensive study. Read as many books in English as you can, not as study material but for pleasure. Do not choose the most difficult books you find with the idea of listing and learning as many new words as possible. Choose what is likely to interest you and be sure in advance that for that deadens the interest and checks real learning. Look up a word here and there but, as a general policy try to push ahead, guessing what words mean from the context. It is extensive not intensive reading that normally helps you to get interested in extra reading and thereby improve your English. You should enjoy the feeling, what extensive reading gives, some command of the language. As you read, you will become more familiar with words and sentence patterns you already know, understanding them better as you meet them in more contexts, some of which may differ only slightly from others.

Adapted from ***Reading Comprehension - Practice Questions***

23. The main purpose of the passage
A. describing the importance of English
B. giving advice on how to teach English
C. giving advice on how to learn new English words'
D. telling readers how to improve their English

24. On what factors learning and improving English depends on?
A. reading a lot of English books
B. the place where you live
C. the material you use
D. constantly looking up new words in a dictionary

25. What is essential when you learn English?
A. learn different words from people
B. read a lot of English books
C. translate new words into your mother tongue.
D. you should enjoy the feeling of reading.

26. What precautions should you take while choosing a book to read?
A. choose the books from outside your examination course.
B. choose the more difficult books from your subject books.
C. extensive reading
D. intensive reading

27. Which type of reading can help you?
A. Intensive reading
B. Reading difficult words
C. Extensive reading
D. Reading dictionary words

Analytical and Logical Reasoning Questions (28-35)

Directions: Questions **28-35** 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 **blacken** the letter of your choice on the separate answer sheet provided.

28. Yonas has a paper route. Each morning, he delivers 37 newspapers to customers in his neighbourhood. It takes Yonas 50 minutes to deliver all the papers. If Yonas is sick or has other problems, his friend Kedir, who lives in the same street, will sometimes deliver the papers for him.

A. Yonas and Kedir live in the same neighbourhood.
B. It takes kedir more than 50 minutes to deliver the papers.
C. It is dark outside when Yonas begins his deliveries.
D. Kedir would like to have his own paper route.

29. Derartu is twelve years old. For three years, she has been asking her parents for a dog. Her parents have told her that they believe a dog would not be happy in an apartment, but they have given her permission to have a bird. Derartu has not yet decided what kind of bird she would like to have.

A. Derartu's parents like birds better than they like dogs.
B. Derartu does not like birds.
C. Derartu and her parents live in an apartment.
D. Derartu and her parents would like to move.

30. One of the warmest winters on record has put consumers in the mood to spend money. Spending is likely to be the strongest in thirteen years. During the month of February, sales of existing single-family homes hit an annual record rate of 4.75 million.

This paragraph best supports the statement that
A. Consumer spending will be higher thirteen years from now than it is today.
B. More people buy houses in the month of February than in any other month.
C. During the winter months, the prices of single-family homes are the lowest.
D. Warm winter weather is likely to affect the rate of home sales.

31. Frehiwot likes to let her students choose who their partners will be; however, no pair of students may work together more than seven class periods in a row. Adem and Belay have studied together seven class periods in a row. Kiya and Africho have worked together three class periods in a row. Kiya does not want to work with Adem. Who should be assigned to work with Belay?
A. Kiya
B. Adem
C. Africho
D. Frehiwot

32. The High School English Department needs to appoint a new chairperson, which will be based on seniority. Hawi has less seniority than Temam, but more than Bekelech. Redwan has more seniority than Hawi, but less than Temam. Temam doesn't want the job. Who will be the new English department chairperson?
A. Hawi
B. Temam
C. Redwan
D. Bekelech

33. Nurse Nefisa has worked more night shifts in a row than Nurse Libamo, who has worked five. Nurse Lomi has worked fifteen night shifts in a row, more than Nurses 33 Nefisa and Libamo combined. Nurse Gelgalo has worked eight-night shifts in a row, less than Nurse Nefisa. How many night shifts in a row has Nurse Nefisa worked?
A. eight
B. nine
C. ten
D. eleven

34. Critical reading is a demanding process. To read critically, you must slow down your reading and, with a pencil in hand, perform specific operations on the text. Mark up the text with your reactions, conclusions, and questions. When you read, become an active participant.

This paragraph best supports the statement that
A. The best critical reading happens at critical times in a person's life.
B. Critical reading requires thoughtful and careful attention.
C. Critical reading is a slow, dull, but essential process.
D. Readers should get in the habit of questioning the truth of what they read.

35. Exams are to be conducted on four days from Monday till Thursday. The exams to be conducted are English, Mathematics, Physics and Biology. Neither English Physics to be conducted on Thursday. Neither Physics nor Mathematics is to be conducted on Tuesday. There are three exams conducted after Biology. Physics exam is conducted on
A. Monday
B. Wednesday
C. Thursday
D. Tuesday

SECTION TWO: Quantitative Reasoning (Questions 36-60)

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

36. Abebe is scheduled to get a raise of birr 250 every 6 months during his first years on the job. If his starting salary is birr 25,250 per year, what is his annual salary at the end of 3 years?

A. Birr 27,250 C. Birr 27,000
B. Birr 26,500 D. Birr 26,750

37. A certain car loses one-tenth of its value each year. If the car is worth Birr 28,000 today, how much will it worth 4 years from now?

A. Birr 9,629.20 C. Birr 22, 689
B. Birr 18, 370.80 D. Birr 25, 200

38. A theater has 38 rows of seats. The first row has 17 seats, the second row has 20 seats, the third row has 23 seats, and so on. What is the seat capacity of the theater?

A. 2565 C. 2755
B. 2627 D. 2765

39. Suppose a ball is dropped from a height of 15m and that it always rebounds to a height equal to two-third of the distance from which it falls. If we let the ball bounce "forever", what is the total distance it would travel until it comes to rest?

A. 75m C. 60m
B. 45m D. 65m

40. A manufacturer produces two types of telephones. The more expensive model requires 1 hour to manufacture and 30 minutes to assemble. The less expensive model requires 45 minutes to manufacture and 15 minutes to assemble. If the company allocates 150 hours for manufacturing and 60 hours for assembly, how many of each type can be produced?

A. 15 of the more expensive model; 90 of the less expensive model
B. 15 of the more expensive model; 120 of the less expensive model
C. 60 of the more expensive model; 120 of the less expensive model
D. 60 of the more expensive model; 90 of the less expensive model

41. What are the values of A and B so that the line with equation $Ax + By = 4$ passes through the points (1,3) and (−2,4)?

A. $A=\frac{6}{5}$ and $B=\frac{2}{5}$ C. $A=\frac{2}{5}$ and $B=\frac{6}{5}$
B. $A=6$ and $B=2$ D. $A=2$ and $B=6$

42. If the system of linear inequalities

$$ax+2y>6$$
$$6x-4y>8$$

has no solution, what is a possible value of a?

A. 2 C. −2
B. 3 D. −3

43. Which of the following linear inequalities define the domain of the expression $\sqrt{2x-y-4}+\ln(2x+y-2)$?

A. $\begin{cases} y \le 2x-4 \\ y<-2x+2 \end{cases}$ C. $\begin{cases} y \le 2x-4 \\ y>-2x+2 \end{cases}$
B. $\begin{cases} y<2x-4 \\ y \le -2x+2 \end{cases}$ D. $\begin{cases} y<2x-4 \\ y \ge -2x+2 \end{cases}$

44. At present Meron is three years younger than her brother Tamirat. If Tamirat is n years old now, what will be the sum of their ages three years from now?

A. $3n+1$ C. $2n-3$
B. $2n+3$ D. $2n$

45. A large square pizza has 49 pieces (square pieces). Ali, Alemu and Abebe ate all the pieces in the ratio 4:2:1, respectively. How many pieces did Alemu eat?

A. 10 Pieces
B. 18 pieces
C. 12 pieces
D. 14 pieces

46. By selling a book for 258 birr a publisher gains 20% profit. For how much should he sell it to gain 30% profit?

A. 279.5 birr
B. 369.8 birr
C. 269.5 birr
D. 379.5 birr

47. The Pythagorean theorem for a right angled triangle is $a^2+b^2=c^2$, where a and b are legs of the triangle and c is the hypotenuse. If the shorter leg is 10 cm less than the other leg and the hypotenuse is 10 cm longer than the other leg, what is the length of the hypotenuse?

A. 30 cm
B. 40 cm
C. 50 cm
D. 60 cm

48. The expression $\frac{a+1}{a^2}+\frac{2a}{a+1}-2$, for $a\neq 0$ and $a\neq -1$, is equal to:

A. $\frac{a^2-3}{a^2+a^2}$
B. $\frac{1+2a-a^2}{a^2+a^2}$
C. $\frac{2-a^2}{a^2+a^2}$
D. $\frac{1+2a}{a^2+a^2}$

49. If $f(x)=x^2-5x+1$, then $f(x+2)$ is equal to:

A. x^2-x-5
B. x^2-x+1
C. x^2-x-6
D. x^2-x+1

50. Given that "7 less than the product of 5 and a number x is 213."

Quantity A	Quantity B
x	44

Which one of the following is true about the relationship between quantities A and B?

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

51. Consider the following table.

Quantity A	Quantity B
$2^{10}+2^{10}+2^{10}+2^{10}$	8^{10}

How are the two quantities related?

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

Questions **52-56** are based on the table below, which gives the percentage distribution of the population of six towns A, B, C, D, E and F on the basis of poverty line and also on the basis of sex.

Town	Percentage of population below poverty line	Proportion of Males and Females	
		Below Poverty line M:F	Above poverty line M:F
A	16	4:3	3:2
B	18	3:4	5:7
C	26	2:3	4:5
D	28	5:6	1:2
E	12.5	3:2	6:5
F	36	4:5	2:3

52. What will be the number of females below poverty line in town C if the population of town C is 5000?
A. 870 C. 780
B. 875 D. 785

53. What will be the approximate number of females above poverty line in town A if it is known that the population of town A is 4400?
A. 1478 C. 1484
B. 1578 D. 1487

54. If the male population above poverty line for town B is 4100, then what is the total population of town B?
A. 12500 C. 14000
B. 13000 D. 12000

55. If the male population below poverty line for town F is 2000, then what is the population of females above poverty line in that town?
A. 3800 C. 4200
B. 4800 D. 3900

56. If the population of males below poverty line for town C is 624 and that for town E is 675, then the total population of town C and E are in the ratio:
A. 2:5 C. 3:4
B. 3:5 D. 2:3

57. Two dice are rolled and the numbers on top are added. What is the probability that the sum is less than 4?
A. $\frac{1}{6}$ C. $\frac{5}{36}$
B. $\frac{1}{12}$ D. $\frac{5}{6}$

58. The table below indicate the school population by gender.

	Males	Females	Total
Freshman	8	17	25
Sophomore	15	10	25
Junior	12	13	25
Senior	15	10	25
Total	50	50	100

Out of the 100 students, what is the probability of randomly selecting a student is either a female or a senior?
A. $\frac{65}{100}$ C. $\frac{60}{100}$
B. $\frac{10}{100}$ D. $\frac{25}{100}$

59. Last year a phone model had a battery that lasted 12 hours. This year the battery lasts only for 8.16 hours. What percent of the battery life has decreased?
A. 68 C. 47
B. 54 D. 32

12 = 100%
(12 − 8.16) = x
$x = \frac{3.84 \times 100}{12}$
= 32%

60. A library normally collects 47 birr in fees in a month. But in March they collected 59.22 birr. What is the percent increase in fees collected in March?
A. 20.6 C. 62
B. 26 D. 79

47 = 100%
(59.22 − 47) = x
$x = \frac{12.22 \times 100\%}{47} = 26\%$

THE END