

5. _____ : soldier; GOWN: PHYSICIAN.
A. gun C. army
B. uniform D. tent

Synonyms

Instruction: Questions 6-9 consist of words printed in 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.

6. GRACEFUL
A. grateful C. attractive
B. dominant D. great
7. DISPENSE
A. expend C. destroy
B. spoil D. distribute
8. EQUIVOCALLY
A. ambiguously C. equally
B. clearly D. uniquely
9. ERRAND
A. brand C. messenger
B. rider D. passenger

Antonyms

Instruction: Questions 10-12 consist of words in 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.

10. NIECE
A. nice C. aunt
B. cousin D. nephew

11. REFUTE

- A. confirm
B. rebut

- C. deny
D. disprove

12. DESTITUTE

- A. generous
B. wealthy

- C. healthy
D. prostitute

Sentence Completion

Instruction: The following sentences 13-17 are incomplete. Choose the word that best completes the meaning of the sentence contextually, and **blacken** the letter of your choice on the separate answer sheet provided.

13. He was charged with carrying an offensive _____.

- A. speech
B. thought

- C. belief
D. weapon

14. The skyscraper rose _____ at the center of the town. Every visitor loves to explore it.

- A. proudly
B. thickly

- C. highly
D. brightly

15. On bad days I even felt _____; I just wanted to kill myself.

- A. causal
B. suicidal

- C. pleased
D. poisoned

16. Learning to swim was not easy for me, but in the end my _____; paid off.

- A. tolerance
B. strength

- C. persistence
D. experience

17. I work a minimum of 35-hours a week to put myself through school without _____ to the temptation of a student loan.

- A. succumbing
B. falling

- C. surviving
D. combating



Reading Comprehension

Instruction: Read the following passages carefully and answer questions 18-27. 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

New situations always make me a bit nervous, and my first swimming class was no exception. After I changed into my bathing suit in the locker room, I stood **timidly** by the side of the pool waiting for the teacher and the other students to show up. After a couple of minutes the teacher came over. She smiled and introduced herself, and two more students joined us. Although they were both older than me, they didn't seem to be embarrassed about not knowing how to swim. I began to feel more at ease.

We got into the pool, and teacher had us put on brightly colored water wings to help us stay afloat. One of the other students, May, had already taken the beginning class once before, so she took a kickboard and went splashing off by herself. The other student, Jerry, and I were told to hold on to the side of the pool and shown how to kick for the breaststroke. One by one, the teacher had us hold on to a kickboard while she pulled it through the water, and we kicked.

Source: Jonan Donaldson Academic Writing January 12th, 2010

18. The writer became relaxed when _____.
- A. the teacher came in and introduced herself
 - B. she saw the others unashamed of being unable to swim
 - C. other students joined the swimming lesson
 - D. she was going to start her first swimming class
19. What is it that makes the writer frightened?
- A. learning to swim
 - B. learning with others
 - C. first time things
 - D. standing in her bathing suit



20. Who do you equate the writer with in terms of learning pace?
A. the teacher
B. both students
C. May
D. Jerry
21. The word **timidly** in paragraph 1, line 2 is synonymous with:
A. timely
B. nervously
C. bravely
D. angrily
22. What does the pronoun **we** in paragraph 2, line 6 refer to?
A. the teacher and the writer
B. the writer and May
C. the writer and Jerry
D. the teacher and all the students

Passage II

Leadership is an important skill for everyone to have! Being a leader rather than a follower only will be helpful in my future. The self-confidence, teambuilding, and speaking skills I have gained through my 4-H involvement will be a definite asset during my college years and "real life" afterward.

When I first started 4-H it was a challenge to stand up at 4-H meetings and give a talk. It seemed very scary and **intimidating** to be up in front of others doing this. However, when you do this each year it becomes more and more natural thing and after a few years of club talks and speaking up at club meetings I was ready to be a club officer! I have actually held almost every club office now, including being Club President just last year.

In the future I plan to attend college. I am not certain of my major, but the leadership opportunities and self-confidence I have gained through 4-H will only give me an advantage no matter what career path I choose!

Source: Jonan Donaldson Academic Writing January 12th, 2010

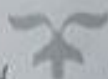


23. The writer believes that _____
- A. being a follower is not useful in one's career.
 - B. being a leader is what awaits everyone in their future life.
 - C. attending college should help one become a leader.
 - D. leadership is not a skill set aside for the select others.
24. Which of the following features is **NOT** useful in the writer's career development?
- A. attending club meetings
 - B. teambuilding
 - C. speaking skills
 - D. self-confidence
25. What do you think was the writer's position at the time?
- A. a college teacher
 - B. a college student
 - C. a high school student
 - D. a university president
26. What did the writer want to be in his future?
- A. a public officer
 - B. a public speaker
 - C. a political activist
 - D. a leader in any field
27. Which of the following is synonymous with the word **intimidating** in paragraph 2, line 2?
- A. frightening
 - B. frustrating
 - C. disappointing
 - D. annoying

Analytical and Logical Reasoning Questions

Instruction: 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. Standing at the top of the mountain, I could see below a grinding mill, a storehouse, a church and a mosque in a row. At the far end was the church with a towering cross, adjacent to the mill. At the other end was the mosque. Which of the following statements is **NOT** correct according to this information?
- A. The mosque was adjacent to the storehouse.
 - B. The mosque was next to the storehouse.
 - C. The storehouse was adjacent to the mill.
 - D. The church was next to the mill.
29. People who speak French can also speak English. Alex is French and Tom is American. To be an American, one should be able to speak English. Which of the following is, therefore, necessarily true?
- A. Alex speaks French.
 - B. Tom speaks both French and English.
 - C. Alex speaks both French and English.
 - D. Tom speaks English.
30. An *assassinee* is an important person killed by someone; whereas, a *martyr* is any person killed because of their political beliefs. *Abbune* was killed on the cause of freedom; whereas, President *Saji* was shot dead in broad light. From this we can conclude that:
- A. When *Saji* is an *assassinee*, *Abbune* is a martyr.
 - B. When *Abbune* is an *assassinee*, *Saji* is a martyr.
 - C. Both *Saji* and *Abbune* are martyrs.
 - D. Both *Saji* and *Abbune* are *assassinees*.



- A. bead C. bad
B. feed D. face

32. In a pseudo language called *Vandu*, *dvt* means work. *gnafu* means drives. *gnafye* means drivers. *dvty* means worker. *gnafaa* means drove.

- What does *dvt ye gnafaa* mean in *Vandu*?
- A. Driver drives.
- B. Worker drives.
- C. Workers drove.
- D. Drivers drove.

33. Based on the data in question 32, the past tense form of *work* in *Vandu* is:

- A. dvtaa C. dvtya
B. dvted D. dvtu

34. Based on the data in question 32, if *kont* means girl, its plural form will be:

- A. kontye C. konte
B. konty D. knts

35. **Father:** How was your exam yesterday?

Son: I got zero out of twenty?

Father: Bravo!

What can we conclude from this conversation between father and son?

- A. The son was happy with his result.
B. The father was sarcastic and disappointed with his son.
C. The father was honestly pleased with his son.
D. The father was humorous and he rejoiced at his son's result.



Section Two: Quantitative Reasoning (Questions 36 – 60)

Directions: This section contains 25 quantitative reasoning items which consists of algebra, sequence, geometry, comparison of quantities probability and statistics altogether. Solve each of the problems given in question 36 – 60 according to their specific instruction and select the correct answer from the given alternatives. Then **blacken** the letter of your choice on the separate answer sheet provided.

36. Which of the following pairs of numbers are twin primes?
A. 2 and 3
B. 3 and 11
C. 19 and 23
D. 41 and 43
37. The water bill for a past month of a certain family was Birr 200. The bill consisted of a fixed charge of Birr 20 plus a charge of Birr 2 per cubic meter for the water used in the month. How many cubic meters of water did the family consumed for the past month?
A. 110
B. 90
C. 100
D. 180
38. At a certain fruit shop, one mango is being sold for Birr 10 and one banana is being sold for Birr 5. If 30 fruits of mangos and bananas were purchased from the fruit shop for Birr 200, how many of the fruits were bananas?
A. 10
B. 25
C. 20
D. 15
39. A lady wants to surprise her boyfriend on his birthday by inviting him and their friends a buffet dinner at a hotel. The maximum budget for the dinner was Birr 8,000. The hotel charges Birr 300 per person for the buffet dinner including tax. If the lady wants to give a tip of Birr 50, then which of the following models the situation assuming that x is the total number of people to be invited for the dinner?
A. $300x + 50 \leq 8000$
B. $300x + 50 \geq 8000$
C. $300x - 50 \leq 8000$
D. $300x - 50 \geq 8000$

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40. Which of the following is true about $x^2 + 3x - 4 = 0$?
- A. It has no solution. C. It has two solutions.
B. It has only one solution. D. It has no real solution.
41. If $(\sqrt[3]{x})^{-\frac{1}{3}} = 2^{-1}$, then which one of the following is the value of x ?
- A. -512 C. $-\frac{1}{512}$
B. 512 D. $\frac{1}{512}$
42. If -3, 0 and 1 are zeros of a polynomial function $p(x)$ of degree 3, then which one of the following is true about $p(x)$?
- A. $x - 3$ is a factor of $p(x)$.
B. $p(-1) = 0$.
C. $p(x) = x^3 + 3x$.
D. x is a factor of $p(x)$.
43. Let $\{a_n\}$ be a sequence defined by $a_1 = 3$, $a_2 = 2$ and for each $n \geq 2$, $a_{n+1} = na_{n-1} - a_n$. Which one of the following is equal to a_6 ?
- A. -14 C. -4
B. 14 D. 56
44. What is a possible value of t in the sequence 100, 98, 94, 86, t , 38, ...?
- A. 82 C. 54
B. 78 D. 70
45. Which one of the following is equal to $\sum_{n=1}^{48} \frac{5}{(n+1)(n+2)}$?
- A. 2.4 C. 2.5
B. 1.5 D. 1.2



46. What is the value of k , if $\sum_{n=1}^{\infty} 5^{nk} = \frac{1}{4}$?
- A. 1
B. 2
C. -1
D. -2

Instruction: For Questions 47 and 48, compare Quantities A and B using the given information and choose the correct answer from the given alternatives that explains the relationship.

47. Let x and y be real numbers such that $x > y$.

Quantity A	Quantity B
$x^2 + y^2$	$2xy$

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

- 48.
- | Quantity A | Quantity B |
|------------|------------|
| 20% of 80 | 30% of 60 |

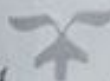
- A. Quantity A is greater than quantity B.
B. Quantity B is greater than quantity A.
C. The two quantities are equal.
D. The relationship cannot be determined.

49. A person deposited money in a microfinance that pays a simple interest rate of 12% per year. After three years, he/she received a total amount of Birr 163,200. Which one of the following was the initial amount in Birr, deposited by the person?

- A. 100,000
B. 140,000
C. 280,000
D. 120,000

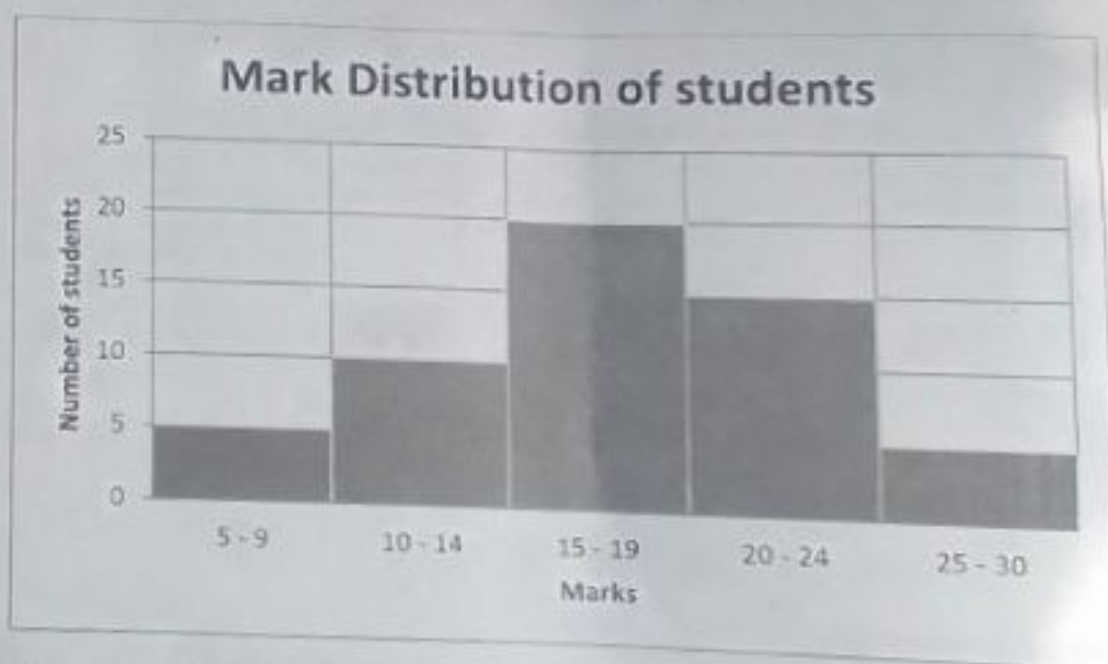


50. A person wants to divide Birr 4,600 for his three children in the ratio of $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$. What are the shares in Birr of each children from the smallest to the largest amount?
- A. 1,200, 1,600 and 1,800
B. 1,200, 1,400 and 2,000
C. 1,000, 1,600 and 2,000
D. 800, 1,600 and 2,200
51. If today is Monday, then what is the day after 57 days starting from today?
- A. Monday
B. Wednesday
C. Tuesday
D. Sunday
52. How many different arrangements of the digits of the number "234523" are there?
- A. 360
B. 180
C. 256
D. 720
53. If two six faced fair dice are rolled, what is the probability of getting a pair of numbers whose sum is either 6 or 12?
- A. $\frac{1}{6}$
B. $\frac{5}{36}$
C. $\frac{7}{36}$
D. $\frac{2}{9}$
54. A box contains 4 black, 5 white and 3 red balls of the same size. If a ball is drawn at random, what is the probability that the ball is neither black nor red?
- A. $\frac{7}{12}$
B. $\frac{5}{12}$
C. $\frac{3}{4}$
D. $\frac{2}{3}$
55. In which quadrant does the terminal side of angle -710° belong?
- A. First
B. Second
C. Third
D. Fourth



56. If a tree casts a shadow of 20 meters long and at the same time a pole of 3 meters casts a shadow of 5 meters long, which of the following is the height of the tree in meters?
- A. 8
B. 16
C. 4
D. 12
57. What is the height of a building in meters, if the angle of elevation of the top of the building from a point 10 meters away from the ground floor of the building is 60° ?
- A. $\frac{10\sqrt{3}}{3}$
B. 5
C. $10\sqrt{3}$
D. $5\sqrt{3}$

Instruction: The following histogram presents the marks of grade 12 students of a certain secondary school in a mid-semester examination taken out of 30. Based on the given data in the histogram, answer questions 58 to 60.



58. Which one of the following is the total number of students considered in the given data?
- A. 45
B. 60
C. 35
D. 55

59. Which of the following is true about the data given in the histogram?
- A. 35 students scored at least 15 marks.
 - B. The range of the given data is 20.
 - C. 20 students scored at least 20 marks.
 - D. Most students scored below 50%.
60. What is the ratio of the number of students who scored below 15 marks to the number of students who scored at least 15 marks in the given data?
- A. 3:11
 - B. 3:8
 - C. 8:11
 - D. 2:11

THE END