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BOOKLET CODE: 32
Number of Items: 60

SUBJECT CODE: 03
Time Allowed: 2 hours

SECTION ONE: Verbal Reasoning

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

Analogy

DIRECTIONS: For questions **1-7** 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. FOOT is to LEG as HAND is to:

   (A) FINGERS (B) THUMB (C) TOE (D) ARM

2. BEEF is to OXEN as PORK is to:

   (A) LION (B) PIG (C) GOAT (D) SHEEP

3. BEGIN is to START as EMPLOY is to:

   (A) END (B) FIRE (C) HIRE (D) CELEBRATE

4. ADULT is to CHILD as CAT is to:

   (A) HERD (B) KITTEN (C) MARE (D) ANIMAL

5. CAP is to HEAD as RING is to:

   (A) HAND (B) EAR (C) LEG (D) NECK

6. CROWD is to DISPERSED as MEETING is to:
(A) DEPRESSED (B) RECESSED (C) ADJOURNED (D) DISCUSSED

7. SUCCESS is to EFFORT as FAILURE is to:
(A) DEVOTION (B) DISASTER (C) CHANCE (D) LAZINESS

Antonyms

DIRECTIONS: Questions **8-10** consist of words printed in capital letters followed by four words. Choose the word that is most nearly **opposite** in meaning to the word in capital letters. Then, find the question number and **blacken** the letter of your choice on the separate answer sheet provided.

8. MEAN:
(A) Cruel (B) Friendly (C) Malicious (D) Unkind

9. SELFISH:
(A) Greedy (B) Meager (C) Altruistic (D) Generous

10. CONDENSE:
(A) Block (B) Convert (C) Summarize (D) Expand

Synonyms

DIRECTIONS: Questions **11-13** consist of words printed in capital letters followed by four words. Choose the word that is most nearly **similar** in meaning to the word in capital letters. Then, find the question number and **blacken** the letter of your choice on the separate answer sheet provided.

11. POVERTY:
(A) Destitution (B) Humility (C) Restraint (D) Deficit

12. MISFORTUNE:
(A) Collapse (B) Adversity (C) Crisis (D) Defenselessness

13. MISERABLE:

(A) Challenging (B) Refutable (C) Violent (D) Abject

Reading Comprehension

DIRECTIONS: Questions **14-18** deal with restoring words correctly into a passage. The following five words listed at random are removed from the passage given below. Numbers are written instead of the words. Read the passage and choose the word that correctly completes the passage. Then, **blacken** the letter of your choice on the separate answer sheet provided.

emissions **exception** **unprecedented** **warmest** **trend**

The Earth's climate has changed throughout history. The current warming **1** is of particular significance because most of it is extremely likely to be the result of human activity since the mid-20th century and proceeding at a rate that is **2**. The planet's average surface temperature has risen about 1.1 degrees Celsius since the late 19th century, a change driven largely by increased carbon dioxide and other human-made **3** into the atmosphere. Most of the warming occurred in the past 35 years, with 16 of the 17 warmest years on record occurring since 2001. Not only was 2016 the **4** year on record, but eight of the 12 months that make up the year - from January through September, with the **5** of June - were the warmest on record for those respective months.

14. Which of the following is the correct word that should replace **4** (the fourth blank in the passage) is _____.

(A) exception (B) warmest (C) trend (D) unprecedented

15. The correct word that should replace **1** (the first blank in the passage) is _____.

(A) emissions (B) unprecedented (C) warmest (D) trend

16. Which of the following is the correct word that should replace **3** (the third blank in the passage) is _____.

(A) trend (B) emissions (C) warmest (D) unprecedented

17. Which of the following is the correct word that should replace **5** (the fifth blank in the passage) is _____.

(A) warmest (B) trend (C) exception (D) unprecedented

18. Which of the following is the correct word that should replace **2** (the second blank in the passage) is _____.

(A) exception (B) emissions (C) warmest (D) unprecedented

Sentence Completion

DIRECTIONS: Answer questions **19-21** by selecting the choice that contains the word or pair of words that correctly complete the statements. Then, **blacken** the letter of your choice on the separate answer sheet provided.

19. It was a war the prime minister and her wise counselors wished to _____ if they could and were determined in any event to _____ as long as possible. They were repeatedly meeting and discussing on this issue until the case was under their control.

(A) curtail : promote
(B) oppose : fight
(C) provoke : delay
(D) avoid : postpone

20. The natural balance between prey and predator has been increasingly _____, usually because of the human intervention.

(A) recognized
(B) disturbed
(C) observed
(D) predicted

21. Typically, legal proceedings begin with an investigation meant to _____ evidence, followed by a trial that establishes whether that evidence _____ a criterion – "**beyond a reasonable doubt**" in criminal proceedings, and "**according to the preponderance of evidence**" in civil proceedings.

(A) show : declare
(B) verify : contradicts
(C) collect : meets
(D) mean : amounts

DIRECTIONS: In questions **22-26** three of the words are in the same classification, the remaining one word does not belong to the others. From the given four alternatives, 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.

22. Choose the word that is different from the other three.
(A) Zoology
(B) Ecology
(C) Psychology
(D) Biology

23. Choose the word that is different from the other three.
(A) Leaf
(B) Root
(C) Stem
(D) Dirt

24. Which one of the following words does **NOT** belong with the others?
(A) Orange
(B) Apple
(C) Sugarcane
(D) Grape

25. Choose the odd one out of the following words.
(A) Anger
(B) August
(C) Disgust
(D) Laughter

26. Which one of the following words does **NOT** belong with the others?
(A) Earth
(B) Mars
(C) Jupiter
(D) Cosmos

Logical and Analytical reasoning (27-35)

DIRECTIONS: Read the following assumptions and answer Questions **27-28.**

Assume J, L, N, M, P, W, C, A, B, F, E, and R represent persons living in a university dormitory. All live in a building having six floors each having two rooms/apartments. No more than two persons live in any apartment/room. Some rooms may be empty.

L and his roommate live two floors above A and his roommate, C.
J lives alone, three floors below W and two floors below E.
M lives one floor below A and C.
N lives three floors above the floor on which B and F have single rooms.
R and **P** live in single rooms two floors below M.

27. Which of the following is true about where **R** lives ?

(A) Fourth floor, opposite A and C
(B) Third floor, above M or E
(C) First floor, below B or F
(D) Second floor, below J or A and C

28. Which of the following lists the persons named in the correct order, going from the bottom floor to the top?

(A) R, B, M, A, L, N
(B) R, F, N, E, L, C
(C) L, E, A, M, F, R
(D) P, B, J, C, N, L

DIRECTIONS: Question **29** needs to be answered based on the statement, followed by two conclusions labeled I and II. You have to assume the statement is 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**: If all the players play to their full potential, we will win the football match. We have won the football match.

Conclusions: **I.** All players played to their full potential.
II. Some players did not play to their full potential.

(A) Only conclusion I follows
(B) Both I and II follows
(C) Only conclusion II follows
(D) Either I or II follows

DIRECTIONS: In this section (Questions **30-35**) each question or a group of questions is based on a passage or set of conditions. Read each question carefully and select the best answer and **blacken** the letter of your choice on the separate answer sheet provided.

30. Today's secondary school students are not being educated. They are being trained. Their teachers demand little of them other than that they memorize facts and follow directions. The current emphasis on training in basic maths and verbal skills, while a useful step, rarely leads to the essential second step: development of independent critical thinking.

The author would probably consider which of the following aspects of a student's term paper to be most praiseworthy?

(A) Evidence of original insights and freshly developed concepts
(B) The use of grammatically correct sentence structure
(C) Evidence of extensive research prior to writing
(D) The choice of a challenging topic

31. Obesity is a serious problem in many developed countries. Research suggests that obesity can lead to a number of health problems including diabetes, asthma, and heart disease. Recent research has even indicated that there may be a relationship between obesity and some types of cancer. Major public health campaigns that increase awareness and propose simple lifestyle changes that will, with diligence and desire, eliminate or at least mitigate the incidence of obesity are a crucial first step in battling this critical problem.

This paragraph best supports the statement that

(A) a decline in obesity would radically decrease the incidence of asthma.
(B) people in those countries watch too much television and do not exercise enough.
(C) public health campaigns that raise consciousness and propose lifestyle changes are a productive way to fight obesity.
(D) fast-food restaurants and unhealthy school lunches contribute greatly to obesity

32. A company worker has six children. No one else in the factory has six children.

Which of the following conclusions logically follows from the statements given above?

(A) Some of the company workers have more than six children.
(B) Only one worker in the company has exactly six children.
(C) All workers in the company have six children each.
(D) Everybody in the company has children.

33. Hassen is standing to the right of Bereket. Beletu is standing on the opposite side of Bereket. Since the opposite of right is wrong, Beletu must be standing on the wrong side of Bereket.

Which of the following logical errors has the author of the argument above committed?

(A) He has confused cause and effect.
(B) He has provided in factual evidence for his conclusion.
(C) He has drawn a general conclusion from an insufficient number of examples.
(D) He has used a single term to mean two different things.

34. Alula must be a basketball player; he is wearing a basketball jersey.

The conclusion above is valid only if it is true that:

(A) Only basketball players wear basketball jerseys.
(B) All basketball players wear basketball jerseys.
(C) Basketball players often wear basketball jerseys.
(D) Basketball players are required to wear basketball jerseys.

35. Today's secondary school students spend too much time thinking about trivial and distracting matters such as fashion. Additionally, they often dress inappropriately on college grounds. Rather than spending time writing another detailed dress policy, we should make school uniforms mandatory. If students were required to wear uniforms, it would increase a sense of community and harmony in our schools and it would instill a sense of discipline in our students. Another positive effect would be that teachers and administrators would no longer have to act as clothing police, freeing them up to focus on more important issues.

This paragraph best supports the statement that

(A) students are not interested in being part of a community.
(B) students who wear school uniforms get into better colleges.
(C) school uniforms should be compulsory for secondary school students.
(D) inappropriate clothing leads to failing grades.

SECTION TWO: Quantitative Reasoning (Questions 36 – 60)

Data interpretation

DIRECTIONS: Questions **36-40** are based on the hypothetical data given in the table below. Answer each question based on the data and **blacken** the letter of your choice on the separate answer sheet provided.

Table: Number of candidates that took and qualified in a license examination from different regions over the years

Region	Year									
	1997-2000		1998-2001		1999-2002		2000-2003		2001-2004	
	Took	Qual.	Took	Qual.	Took	Qual.	Took	Qual.	Took	Qual.
AA	5200	720	8500	980	7400	850	6800	775	9500	1125
AM	7500	840	9200	1050	8450	920	9200	980	8800	1020
OR	6400	780	8800	1020	7800	890	8750	1010	9750	1250
TI	8100	950	9500	1240	8700	980	9700	1200	8950	995
SP	7800	870	7600	940	9800	1350	7600	945	7990	885

36. What is the percentage of total number of qualified candidates to the total number of candidates took the exam among all the five regions in 2002?

(A) 11.84%
(B) 11.52%
(C) 11.48%
(D) 11.89%

37. What is the percentage of candidates qualified from Region AM for all the years together, over the candidates took the exam from Region AM during all the years together?

(A) 11.75%
(B) 11.46%
(C) 11.57%
(D) 11.15%

38. In which of the given years the number of candidates took the exam from region OR has maximum percentage of qualified candidates?

(A) 2001
(B) 2003
(C) 2004
(D) 2000

39. What is the average number of candidates who took the exam from Region TI during the given years?

(A) 8800
(B) 8900
(C) 8860
(D) 8990

40. What percent is the total number of qualified candidates in 1997-2000 to the total number of those qualified in 2001-2004?

(A) 84%
(B) 76%
(C) 78%
(D) 80%

DIRECTIONS: Questions **41-42** consist of two quantities, one in Column A and one in Column B. Compare the two quantities and answer the questions by choosing the alternative that best explains the relationship between "column A" and "column B"

41. x>y

Quantity A	Quantity B
30% of x	50% of y

(A) The two quantities are equal.
(B) Quantity A is less than quantity B.
(C) The relationship cannot be determined from the information given.
(D) Quantity A is greater than quantity B.

42.

Quantity A	Quantity B
$(-21)^{12}$	$(-31)^{13}$

(A) The two quantities are equal.
(B) Quantity A is greater than quantity B.
(C) Quantity A is less than quantity B.
(D) The relationship cannot be determined from the information given.

DIRECTIONS: Solve each of the problems given in questions **43–60** below **and** select the best answer from the given alternatives. Then, find the correct question number and **blacken** the letter of your choice on the separate answer sheet provided.

43. If ***s*** is a number between 0 and 1, which of the following is **NOT** more than ***s?***

(A) $\sqrt{s}$ (B) $1/s$ (C) $2s$ (D) s^2

44. Look at the pattern carefully: 10 20 25 35 40 50 55, then which of the following pair of numbers comes next?

(A) 60 65 (C) 60 75
(B) 65 70 (D) 60 70

45. What is the simplified form of $(1 \div 10^{-1}) \times (-1)^{-10}$?

(A) 10 (B) 1 (C) 0.1 (D) 100

46. If $b \neq 0$ and $\frac{a}{5} = \frac{b}{7}$, what is the value of $\frac{a}{b}$?

(A) $\frac{7}{5}$ (B) $\frac{1}{7}$ (C) $\frac{1}{5}$ (D) $\frac{5}{7}$

47. Look at the pattern carefully: 32 31 32 29 32 27 32, then which of the following pair of numbers comes next?

(A) 29 32 (C) 25 32
(B) 29 30 (D) 25 30

48. $1 \div 0.1 \div 0.01 \div 0.001$ is equal to

(A) 1,000,000 (B) 0.001 (C) 100 (D) 0.00001

49. What number increased by 3 is equal to 3 less than twice the number?

(A) 3 (B) 9 (C) 12 (D) 6

50. Three professors contested an election for a university president and received 1136, 7636 and 11628 votes, respectively. What percentage of the total votes did the winning professor get?

(A) 65% (C) 59%
(B) 57% (D) 61%

51. If one-fourth of one-third of a number is 15, then what is three-tenth of that number?

(A) 39 (B) 45 (C) 54 (D) 34

52. An athlete completes a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. What is the total journey in km?

(A) 216 km (C) 218 km
(B) 225 km (D) 230 km

53. If $y \neq 0$ and $xy = \frac{y}{6}$, what is the value of x?

(A) $\frac{1}{2}$ (B) $\frac{1}{8}$ (C) $\frac{1}{4}$ (D) $\frac{1}{6}$

54. What number should come next in the series: 7, 10, 8, 11, 9, 12, ...?

(A) 13 (B) 10 (C) 12 (D) 7

55. The difference between a positive proper fraction and its reciprocal is 9/20. What is the value of the fraction?

(A) 5/4 (C) 4/3
(B) 3/5 (D) 4/2

56. What is the product of $(\sqrt{7} - 2)(\sqrt{7} + 2)$?
(A) 5 (B) 4 (C) 2 (D) 3

57. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
(A) 8 years (C) 6 years
(B) 4 years (D) 10 years

58. What number should come next in the series: 544, 509, 474, 439, ... ?
(A) 445 (B) 420 (C) 404 (D) 414

59. A library has an average of 510 visitors on Sundays and 240 on other days. What is the average number of visitors per day in a month of 30 days beginning with a Sunday?
(A) 285 (C) 275
(B) 283 (D) 290

60. What number should come next in the series: 58, 52, 46, 40, 34, ... ?
(A) 32 (B) 30 (C) 28 (D) 34

THE END

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