Entrance Exam

2024



QUESTION PAPER

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BVOC

1. The smallest 3-digit perfect square is

   (A) 111
   (B) 101
   (C) 121
   (D) 100

2. Ratio 3 : 4 is equivalent to

   (A) 70%
   (B) 50%
   (C) 75%
   (D) 80%

3. 18 hours is what percent of 2 days

   (A) 37.5%
   (B) 40%
   (C) 32%
   (D) 25%

4. Value of $y(y - 4)$ for $y = 1$ is

   (A) –3
   (B) 3
   (C) 5
   (D) 4

5. Find the single discount equivalent to a series discount of 20%, 10% and 5%

   (A) 30.6%
   (B) 31.6%
   (C) 32.6%
   (D) 33.6%

6. Ravi travels for 5 hrs 15 min. He covers the first half of the journey at 60 kmph and the rest at 45 kmph. Find the total distance travelled by him?

   (A) 270 km
   (B) 271 km
   (C) 272 km
   (D) 273 km

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7. Identify the next number in the series.

4, 9, 19, 39, 79, ……

(A) 169
(B) 159
(C) 119
(D) 139

8. Identify the next number in the series.

1 : 1 :: 25 : .....?

(A) 26
(B) 125
(C) 240
(D) 625

9. Identify wrong number in the series.

16, 25, 41, 66, 102, 151, 251

(A) 251
(B) 41
(C) 66
(D) 102

10. If $3x + 4y = 20$ and $2x - 5y = 7$, what is the value of $x - y$?

(A) $\frac{109}{23}$

(B) $\frac{129}{26}$

(C) $\frac{121}{24}$

(D) $\frac{132}{26}$

11. The sum of three consecutive integers is 72. What is the smallest integer?

(A) 32
(B) 23
(C) 34
(D) 43

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12. If a square has a perimeter of 40 cm, What is its area?

(A) $100\ cm^2$
(B) $160\ cm^2$
(C) $80\ cm^2$
(D) $120\ cm^2$

13. Four-fifth of a number is more than three-fourth of the number by 4. The number is

(A) 64
(B) 72
(C) 80
(D) 84

14. On dividing 50 into two parts such that the sum of their reciprocal is $\frac{1}{12}$, we get the part as

(A) 20, 30
(B) 24, 26
(C) 28, 22
(D) 36, 14

15. If the sum of two numbers is 45 and their difference is 15, what are the two numbers?

(A) 30, 15
(B) 10, 20
(C) 40, 20
(D) 15, 30

16. If $x = y^a$, $y = z^b$ and $z = x^c$, then the value of abc is

(A) 4
(B) 3
(C) 2
(D) 1

17. A train travels at a speed of 72 km/h for 1 hour, then at 60 km/h for 2 hours, and finally at 50 km/h for 1 hour. What is the average speed of the train?

(A) 62 km/hr
(B) 64.5 km/hr
(C) 50 km/hr
(D) 60.5 km/hr

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18. If a shop sells an item for ₹40 and makes a profit of 25%, what is the cost price of the item?

(A) 32
(B) 23
(C) 52
(D) 69

19. If 124y is divisible by 4 which of these cannot be the value of y?

(A) 0
(B) 2
(C) 4
(D) 8

20. Cube root of −0.008 is

(A) −0.2
(B) −0.02
(C) 0.2
(D) −0.3

21. How many integers between 1 and 1000 are perfect cubes?

(A) 8
(B) 4
(C) 7
(D) 5

22. Find the number of sides of a regular polygon if the measure of its exterior angle is 24°.

(A) 5
(B) 10
(C) 15
(D) 20

23. In a row of boys facing the North, A is the sixteenth from the left end and C is the sixteenth from the right end. B, who is fourth to the right of A, is fifth to the left of C in the row. How many boys are there in the row?

(A) 39
(B) 40
(C) 41
(D) 42

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24. In a group of forty children, P is thirteenth from the left and Q is ninth from the right end. How many children are there between P and R if R is fourth to the left of Q?

(A) 12
(B) 13
(C) 14
(D) 15

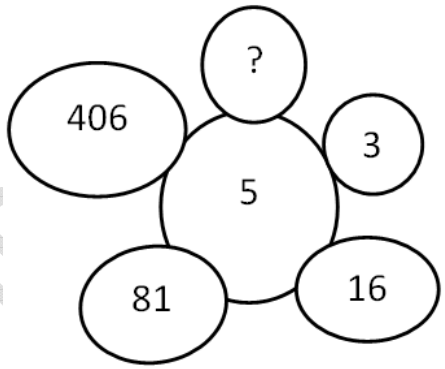
25. In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts in all 60 questions and secures 130 marks, the number of questions he attempts correctly, is

(A) 38
(B) 35
(C) 40
(D) 42

26. Find the number which when added to itself 13 times, gives 112

(A) 7
(B) 8
(C) 9
(D) 11

27. What number should replace the question mark to complete the pattern?



(A) 1
(B) 731
(C) 1625
(D) 2031

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28. What number should replace the question mark to complete the pattern?

7	9	21	27
4	2	36	18
9	4	54	?

(A) 18
(B) 24
(C) 36
(D) 58

29. Ajay left home for the bus stop 15 minutes earlier than usual. It takes 10 minutes to reach the stop. He reached the stop at 8. 40am.What time does he usually leave home for the bus stop?

(A) 8.15 am
(B) 8.30 am
(C) 8.45 am
(D) 8.55 am

30. A manufacturing company produces 500 units of a product per day. If each unit requires 3 minutes to assemble, how many hours does it take to assemble all the units in a day?

(A) 25 hrs
(B) 35 hrs
(C) 30 hrs
(D) 20 hrs

31. If February 1, 2004 is Wednesday, what day is March 3, 2004?

(A) Monday
(B) Sunday
(C) Saturday
(D) Friday

32. If × means −, + means ÷, − means × and ÷ means +, then 15 – 2 ÷ 900 + 90 × 100 = ?

(A) 190
(B) −180
(C) 0
(D) −60

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33. If P means ‘add to’, B means ‘multiple by’, T means ‘subtract from’ and K means ‘divide by’, then 30 K 2 P 3 B 6 T 5 = ?

(A) 18
(B) 28
(C) 31
(D) 103

34. Laxman went 15 km to the west from his house, then turned left and walked 20 km. He then turned East and walked 25 km and finally turning left covered 20km. How far was he from his house?

(A) 5 km
(B) 40 km
(C) 80 km
(D) 10 km

35. A rectangular swimming pool measures 20 meters in length and 10 meters in width. If the pool is filled with water up to a depth of 2 meters, what is the volume of water in the pool?

(A) 325 cu.m
(B) 400 cu.m
(C) 430 cu.m
(D) 108 cu.m

36. At 3.40 the hour hand and the minute hand of a clock form an angle of

(A) 120°
(B) 125°
(C) 130°
(D) 135°

37. The integers 49966 and 52231 divided by a three-digit number ‘*n*’ give the same remainder. What is the value of *n*?

(A) 323
(B) 285
(C) 453
(D) 527

FOR REFERENCE ONLY

38. Simplify $\frac{3}{5}+\frac{2}{3}$

(A) $\frac{19}{15}$

(B) $\frac{17}{15}$

(C) $\frac{23}{15}$

(D) $\frac{5}{8}$

39. In how many ways can 4 girls and 5 boys be arranged in a row so that all the four girls are together?

(A) 580
(B) 17420
(C) 17280
(D) 16260

40. If $2.5x - 1.8 = 8.2$, what is the approximate value of x?

(A) 4.0
(B) 4.8
(C) 5.2
(D) 6.1

41. Evaluate $\frac{\left(5^2-4^2\right)}{5+4}$

(A) 0
(B) 1
(C) 5
(D) 9

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42. The table shows the number of cars sold by a dealership in each month

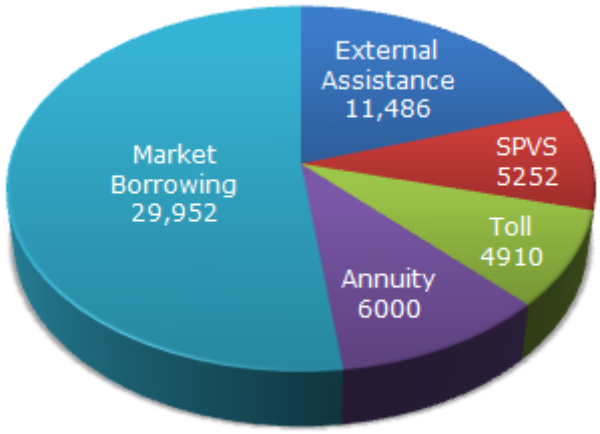
Month	January	February	March	April
Cars Sold	25	30	40	35

What is the percentage increase in car sales from February to March?

(A) 25%
(B) 33.33%
(C) 20%
(D) 10%

Directions: The following pie-chart shows the sources of funds to be collected by the National Highways Authority of India (NHAI) for its Phase II projects. Study the pie-chart and answer the following questions.

Sources of funds to be arranged by NHAI for Phase II projects (in crores ₹)



43. Near about 20% of the funds are to be arranged through

(A) SPVS
(B) External Assistance
(C) Annuity
(D) Market Borrowing

44. If the toll is to be collected through an outsourced agency by allowing a maximum 10% commission, how much amount should be permitted to be collected by the outsourced agency, so that the project is supported with ₹ 4910 crores?

(A) ₹6213 crores
(B) ₹5827 crores
(C) ₹5401 crores
(D) ₹5316 crores

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45. The approximate ratio of the funds to be arranged through Toll and that through Market Borrowing is

(A) 2 : 9
(B) 1 : 6
(C) 3 : 11
(D) 2 : 5

46. Find the missing number in the series?

3, 6, 12, ……., 48

(A) 20
(B) 24
(C) 28
(D) 32

47. Find the next term in the series?

1, 4, 9, 16, ……..

(A) 22
(B) 23
(C) 24
(D) 25

48. What is the missing number in the series?

11, 17, 23, ……., 35

(A) 29
(B) 30
(C) 31
(D) 32

49. Find the missing number in the series?

2, 6, 12, 20, ……., 42

(A) 28
(B) 30
(C) 32
(D) 36

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50. Principal amount is ₹2000, rate of interest is 5% per annum, and duration is 3 years. What is the simple interest?

(A) ₹300
(B) ₹350
(C) ₹400
(D) ₹450

51. If a company has three partners and each partner contributes ₹5,000, what is the total contribution?

(A) ₹10,000
(B) ₹15,000
(C) ₹5,000
(D) ₹20,000

52. Find the 15% of 240?

(A) 36
(B) 24
(C) 48
(D) 30

53. A company increased its production by 25%, and the new production is 500 units. What was the original production?

(A) 400
(B) 420
(C) 450
(D) 480

54. In a class, 60% of the students like mathematics. If there are 50 students in the class, how many students like mathematics?

(A) 25
(B) 30
(C) 35
(D) 40

55. For a student to clear an examination, he must score 55% marks. If he gets 120 and fails by 78 marks, what is the total marks for the examination?

(A) 198
(B) 250
(C) 298
(D) 360

FOR REFERENCE ONLY

56. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Find the original number of apples he had?

(A) 588 apples
(B) 600 apples
(C) 672 apples
(D) 700 apples

57. If Alice is currently 10 years old, and her brother Bob is 3 years older than she is, how old will Bob be in 5 years?

(A) 13 years
(B) 15 years
(C) 17 years
(D) 18 years

58. The sum of the ages of Peter and his sister Sarah is 25. If Peter is 3 years older than Sarah, how old is Peter?

(A) 11 years
(B) 12 years
(C) 13 years
(D) 14 years

59. A father is three times as old as his son. If the sum of their ages is 48, how old is the son?

(A) 12 years
(B) 15 years
(C) 16 years
(D) 18 years

60. A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, then how old is B?

(A) 7
(B) 8
(C) 9
(D) 10

FOR REFERENCE ONLY

61. **Direction:** Fill in the blanks.

The detective carefully examined the …… left at the crime scene to gather clues

(A) Alibi
(B) Evidence
(C) Witness
(D) Motive

62. **Direction:** Fill in the blanks.

The professor's lecture was so ……. that many students struggled to stay awake

(A) Engaging
(B) Monotonous
(C) Intriguing
(D) Stimulating

63. Choose the correctly punctuated sentence.

(A) She went to the store and bought milk, eggs, and bread
(B) She went to the store, and bought milk eggs and bread
(C) She went to the store and bought, milk, eggs, and bread
(D) She went to the store and bought milk eggs, and bread

64. Choose the correct spelling

(A) Occurence
(B) Occurrence
(C) Ocurrence
(D) Occurrance

65. Fill in the blanks with correct form of the verb:

"She …….. to the market every Sunday".

(A) Go
(B) Goes
(C) Going
(D) Gone

66. Pick out the word that is most nearly the same meaning as "REPEAL"

(A) to pay back
(B) undress
(C) say again
(D) withdraw

FOR REFERENCE ONLY

67. **Direction:** Fill in the blanks.

The students …… the teacher on teachers' day for twenty years of dedicated teaching.

(A) facilitated
(B) felicitated
(C) fantasized
(D) fecilitated

68. **Direction:** Fill in the blanks.

Our Sir teaches Mathematics ……. English

(A) across
(B) besides
(C) beside
(D) both

69. **Direction:** Fill in the blanks.

Please, come ……. the bathroom

(A) out of
(B) over
(C) on
(D) in

70. **Direction:** Fill in the blanks.

Three Idiots …….. really a watchable movie

(A) are
(B) is
(C) superb
(D) do

71. **Direction:** Fill in the blanks.

I don't know the city …… he lives

(A) what
(B) where
(C) when
(D) which

FOR REFERENCE ONLY

72. Choose the correct idiom to complete the sentence.

"He always remains calm under pressure; he has nerves of ……."

(A) Glass
(B) Steel
(C) Silk
(D) Fire

73. Identify the grammatical error in the following sentence.

"The team are playing exceptionally well today".

(A) The
(B) are
(C) playing
(D) well

74. Choose the correct idiom to complete the sentence.

She always speaks her mind; she never beats around the ……

(A) bush
(B) tree
(C) plant
(D) flower

75. Which of the following is a compound sentence?

(A) The cat sat on the windowsill
(B) Although it rained, we still went for a walk
(C) Running swiftly, the deer escaped from the predator
(D) She enjoys reading and playing tennis

76. Choose the correct synonym for the word.

"Frantic"

(A) satisfactory
(B) agitated
(C) calmly
(D) meak

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77. Choose the correct synonym for the word.

"Benevolent"

(A) Malevolent
(B) Kind-hearted
(C) Hostile
(D) Cruel

78. Choose the correct synonym for the word.

"Luminous"

(A) Dark
(B) Bright
(C) Gloomy
(D) Shadowy

79. Choose the correct antonym for the word.

"Expand"

(A) Shrink
(B) Enlarge
(C) Extend
(D) Inflate

80. Choose the correct antonym for the word.

"Harmony"

(A) Discord
(B) Peace
(C) Agreement
(D) Unity

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81. **Direction:** The following question consists of a sentence, the parts of which are jumbled. Rearrange these parts which are labelled **P, Q, R, S** to produce the correct sequence.

When he

P did not know
Q he was nervous and
R heard the hue and cry at midnight
S what to do

The Proper sequence should be:

(A) RQPS
(B) QSPR
(C) SQPR
(D) PQRS

82. If not allowed in WHINE it becomes intoxicating, but when brought back in SINE it appears brighter. What is it?

(A) N
(B) E
(C) W
(D) H

83. Choose the word that is different from the rest

(A) cap
(B) turban
(C) helmet
(D) gloves

84. Rearrange the jumbled letters in each option to identify the bird and find the odd one out?

(A) KWAH
(B) EUPNGIN
(C) WCRO
(D) AORSWPR

85. Choose the sentence in active voice

(A) The cake was baked by Mary
(B) Mary baked the cake
(C) The cake is being baked by Mary
(D) The cake has been baked by Mary

FOR REFERENCE ONLY

86. Identify the passive voice sentence

(A) She ate the delicious meal
(B) The delicious meal was eaten by her
(C) He will finish the project tomorrow
(D) They are playing in the garden

87. Meena is a <u>well-behaved</u> girl. The underlined word is

(A) Adverbial phrase
(B) Noun phrase
(C) Adjective phrase
(D) Prepositional phrase

88. **Direction:** Fill in the blanks.

…….. teachers of this school are punctual

(A) a
(B) an
(C) the
(D) no article

89. **Direction:** Fill in the blanks.

This is one of ……. most interesting song I have ever heard

(A) a
(B) an
(C) the
(D) no article

90. Identify the grammatically correct sentence.

(A) She don't like coffee
(B) He don't like coffee
(C) They doesn't like coffee
(D) She doesn't like coffee

91. Identify the indirect form of the sentence: “Don’t smoke”, she told me.

(A) She told me that not smoke.
(B) She told me not to smoke.
(C) She told me to smoke.
(D) She told me do not smoke.

FOR REFERENCE ONLY

92. **Direction:** Fill in the blanks.

The fish are swimming ……. the pond.

(A) on
(B) in
(C) beside
(D) under

93. **Direction:** Fill in the blanks.

He is good …….. playing the guitar.

(A) on
(B) with
(C) at
(D) by

94. **Direction:** Fill in the blanks.

The manager decided to ……. the team's efforts by providing additional training.

(A) Enhance
(B) Decrease
(C) Hinder
(D) Stall

95. **Direction:** Fill in the blanks.

The company has …….. increased its production capacity.

(A) signify
(B) significant
(C) significance
(D) significantly

96. Convert the following direct speech into indirect speech:

"Can you pass me the salt?" he asked

(A) He asked if I could pass him the salt
(B) He asked if he can pass the salt
(C) He asked if I can pass him the salt
(D) He asked if I can pass the salt

FOR REFERENCE ONLY

97. Spot the grammar error in the given sentence and choose grammatically correct sentence.

"He gave an apple to every of the children".

(A) He gave an apple to each of the children
(B) He gave an apple to all of the children
(C) He gave apple to each of the children
(D) No error

98. Find the odd man out:

(A) Square
(B) Triangle
(C) Circle
(D) Rectangle

99. In the given question below, a sentence with three words printed in bold is given. These words are numbered (A), (B) and (C). One of the three words in bold may be either wrongly spelt or inappropriate in the context of the sentence. Identify that word and mark its number as your answer.

Ashoka is the only **monarch (A)** in recorded history to **abanden (B)** warfare after **victory (C)**.

(A) monarch
(B) abanden
(C) victory
(D) All correct

100. In the given question below, a sentence with three words printed in bold is given. These words are numbered (A), (B) and (C). One of the three words in bold may be either wrongly spelt or inappropriate in the context of the sentence. Identify that word and mark its number as your answer.

Though Hispanic Catholics are **conservative (A)** on some social issues such as abortion, this seldom **determines (B)** their party **allegience (C)**.

(A) conservative
(B) determines
(C) allegience
(D) All correct

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101. In the given question below, a sentence with three words printed in bold is given. These words are numbered (A), (B) and (C). One of the three words in bold may be either wrongly spelt or inappropriate in the context of the sentence. Identify that word and mark its number as your answer.

Two things that **hobbled (A)** him were the terrorists Basque, Maoist and **neo-facist (B)**, who could neither be **conciliated (C)** nor legalized.

(A) hobbled
(B) neo-facist
(C) conciliated
(D) All correct

102. In the given question below, a sentence with three words printed in bold is given. These words are numbered (A), (B) and (C). One of the three words in bold may be either wrongly spelt or inappropriate in the context of the sentence. Identify that word and mark its number as your answer.

The flower is **biannual (A)** as it grows only in the Himalayas and **blossoms (B)** every two years and that too during the summer **season (C)**.

(A) biannual
(B) blossoms
(C) season
(D) All correct

103. Choose the correct meaning of the given idiom from the answer choices given below.

Go to sea

(A) To leave one's children
(B) To realize the 'truth' of life
(C) To lose a lot of money
(D) Set out on a voyage

104. Choose the correct meaning of the given idiom from the answer choices given below.

A bull in a china shop

(A) A person who is very ugly but loves the beautiful things of life
(B) A person who takes a sadistic delight in harming innocent people
(C) A person who becomes too excited where no excitement is warranted
(D) A rough and clumsy person at a place where skill and care are required

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105. Choose the correct meaning of the given idiom from the answer choices given below.

The alpha and the omega

(A) The beginning and the end
(B) A nice act
(C) The stars and the moon
(D) Very costly

Direction: Read the following passage and answer the question that follow:

The solar system is a vast and intricate network of celestial bodies that revolve around the Sun. It consists of eight planets, including Earth, which is the only known planet to support life. Each planet has its unique characteristics, size, and composition. The planets are categorized into two main groups: terrestrial planets (Mercury, Venus, Earth, and Mars) and gas giants (Jupiter, Saturn, Uranus, and Neptune).

Apart from planets, the solar system also comprises moons, asteroids, comets, and other smaller objects. The Sun, a massive ball of hot gases, is at the center, exerting gravitational forces that keep the planets and other celestial bodies in their orbits.

The study of the solar system helps scientists understand the origin, evolution, and future of celestial bodies. Various space missions have been launched to explore planets, moons, and other objects, providing valuable data and insights.

106. What is the main focus of the passage?

(A) The study of Earth
(B) The exploration of space
(C) The solar system and its components
(D) The characteristics of gas giants

107. How many planets are there in the solar system?

(A) Six
(B) Seven
(C) Eight
(D) Nine

108. Which planets are categorized as terrestrial planets?

(A) Jupiter, Saturn, Uranus, Neptune
(B) Mercury, Venus, Earth, Mars
(C) Earth, Mars, Jupiter, Saturn
(D) Venus, Earth, Mars, Jupiter

FOR REFERENCE ONLY

109. What is at the center of the solar system?

(A) Moon
(B) Earth
(C) Sun
(D) Mars

110. Why is the study of the solar system important?

(A) To understand the origin, evolution, and future of celestial bodies
(B) To predict the weather on Earth
(C) To explore underwater ecosystems
(D) To study the behavior of volcanoes

Direction: Read the following passage and answer the question that follow:

In a quaint village nestled between rolling hills, a small bookstore named "Whimsical Words" stood as a haven for book lovers. The store was known for its unique collection of rare and vintage books, attracting avid readers from far and wide.

One sunny afternoon, a young girl named Emily discovered the hidden gem while exploring the village. Intrigued by the cozy atmosphere and the promise of literary treasures, she decided to step inside.

The store's shelves were lined with books of various genres, from classic literature to contemporary fiction. Emily couldn't resist the urge to explore and lose herself in the world of words. As she meandered through the aisles, an old leather-bound book caught her eye. Its pages whispered tales of a bygone era, and Emily felt an inexplicable connection to the story within.

After spending hours engrossed in her newfound discovery, Emily approached the elderly bookstore owner, Mr. Jenkins, to express her gratitude. He smiled warmly and shared the history of the bookstore, emphasizing the importance of preserving the magic of literature.

111. What is the name of the bookstore in the passage?

(A) Cozy Corner
(B) Whimsical Words
(C) Literary Haven
(D) Hidden Gems

FOR REFERENCE ONLY

112. What attracted Emily to the bookstore?

(A) The village scenery
(B) A unique collection of rare books
(C) The cozy atmosphere
(D) All of the above

113. What genre of books does "Whimsical Words" specialize in?

(A) Science fiction
(B) Mystery
(C) Various genres
(D) Contemporary romance

114. What caught Emily's eye in the bookstore?

(A) A contemporary novel
(B) An old leather-bound book
(C) A collection of short stories
(D) A poetry anthology

115. Who is the owner of the bookstore?

(A) Mr. Smith
(B) Mrs. Johnson
(C) Mr. Jenkins
(D) Ms. Anderson

FOR REFERENCE ONLY

Direction: Read the following passage and answer the question that follow.

In the heart of a bustling city lies a quaint bookstore, adorned with shelves that seem to whisper tales of ages past. The aroma of aged paper and ink fills the air as you step inside, greeted by the comforting embrace of literature. The owner, an elderly gentleman with a twinkle in his eye, has curated a collection that spans genres and epochs.

As you browse through the labyrinth of bookshelves, each volume seems to call out, promising to transport you to distant lands and different times. The joy of discovery is palpable, and every book holds the potential to be a gateway to a new world. The gentle rustle of pages turning harmonizes with the distant city sounds, creating a symphony of literary exploration.

116. What is the atmosphere inside the bookstore?

(A) Bustling and noisy
(B) Serene and quiet
(C) Confined and uncomfortable
(D) Bright and chaotic

117. How would you describe the bookstore owner?

(A) Young and energetic
(B) Middle-aged and serious
(C) Elderly with a twinkle in his eye
(D) Mysterious and elusive

118. What fills the air as you enter the bookstore?

(A) Aroma of coffee
(B) Aroma of aged paper and ink
(C) Fragrance of flowers
(D) Smell of paint

119. What does each volume in the bookstore promise?

(A) To teach a new skill
(B) To entertain with humor
(C) To transport to distant lands and different times
(D) To provide scientific knowledge

120. What is the experience of browsing through the bookshelves?

(A) Frustrating and dull
(B) Boring and tedious
(C) Exciting and joyous
(D) Unpleasant and irritating

121. What does the symphony of literary exploration refer to?

(A) A musical performance in the bookstore
(B) The combination of book rustling and city sounds
(C) A special event for literature enthusiasts
(D) The noise created by customers in the bookstore

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122. Arrange the following events in chronological order:

a. Declaration of Independence
b. Invention of the Internet
c. Moon Landing
d. World War II

(A) b, c, a, d
(B) d, a, b, c
(C) a, d, c, b
(D) b, a, c, d

123. Who is the brother of your father's only daughter?

(A) Cousin
(B) Brother
(C) Nephew
(D) Son

124. Which one of the following is always associated with 'tree'?

(A) Flowers
(B) Leaves
(C) Fruits
(D) Roots

125. Identify the figure that completes the pattern



(A) 1
(B) 2
(C) 3
(D) 4

126. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series 6, 13, 25, 51, 101, **?**

(A) 201
(B) 202
(C) 203
(D) 205

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127. Which of the following letters will appear unchanged in a mirror image?

(A) A
(B) B
(C) C
(D) E

128. The angle between the minute hand and the hour hand of a clock when the time is 4.20, is:

(A) 0°
(B) 10°
(C) 5°
(D) 20°

129. Which of the following conclusions can be drawn from the given syllogism statements?

Statements:

I All squares are rectangles
II Some rectangles are not triangles

(A) Some squares are triangles
(B) Some triangles are squares
(C) All squares are triangles
(D) Some squares are not triangles

Directions: Read the following passage carefully and answer the questions given below it.

The catalytic fact of the twentieth century is uncontrollable development, consumerist society, political materialism, and spiritual devaluation. This inordinate development has led to the transcendental 'second reality' of sacred perception that biologically transcendence is a part of human life. As the century closes, it dawns with imperative vigour that the 'first reality' of enlightened rationalism and the 'second reality' of the beyond have to be harmonised in a worthy state of man. The de facto values describe what we are, they portray the 'is' of our ethic, they are *est* values (Latin *est* means is). The ideal values tell us what we ought to be, they are *esto* values (Latin *esto* 'ought to be'). Both have to be in the ebb and flow of consciousness. The ever new science and technology and the ever-perennial faith are two modes of one certainty, that is the wholeness of man, his courage to be, his share in Being.

The materialistic foundations of science have crumbled down. Science itself has proved that matter is energy, processes are as valid as facts, and affirmed the non-materiality of the universe. The encounter of the 'two cultures', the scientific and the humane, will restore the normal vision, and will be the bedrock of a 'science of understanding' in the new century. It will give new meaning to the ancient perception that quantity (measure) and quality (value)

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coexist at the root of nature. Human endeavours cannot afford to be humanistically irresponsible.

130. The problem raised in the passage reflects overall on

(A) Consumerism
(B) Materialism
(C) Spiritual devaluation
(D) Inordinate development

131. According to the passage, the 'first reality' constitutes

(A) Economic prosperity
(B) Political development
(C) Sacred perception of life
(D) Enlightened rationalism

132. Encounter of the 'two cultures', the scientific and the human implies

(A) Universe is both material and non-material
(B) Restoration of normal vision
(C) Man is superior to nature
(D) Co-existence of quantity and quality in nature

133. The passage indicates that science has proved that

(A) universe is material
(B) humans are irresponsible
(C) nature has abundance
(D) matter is energy

134. Arrange the following items from general to particular:

a Animal
b Feline
c Leopard
d Mammal
e Vertebrate
f Cat

(A) a, b, c, d, e, f
(B) a, c, e, d, b, f
(C) a, d, c, b, e, f
(D) a, e, d, b, c, f

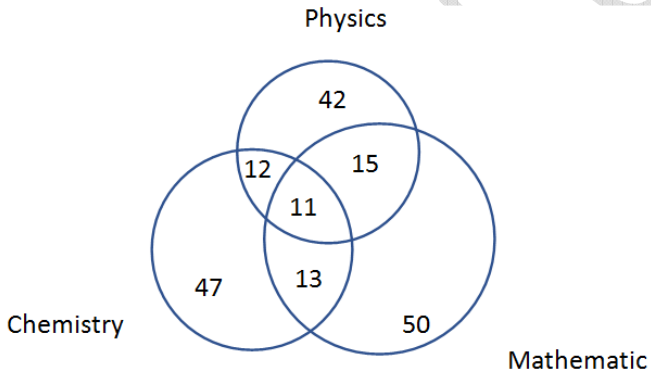
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135. Arrange the given words in a meaningful sequence

a Atomic age
b Metallic age
c Stone age
d Alloy age

(A) a, c, d, b
(B) b, c, a, d
(C) c, b, d, a
(D) d, c, b, a

Directions: The diagram given below shows the number of students who got distinction in three subjects out of 500 students. Study the diagram carefully and answer the questions that follows:



136. What is the percentage of students who got distinction in two subjects?

(A) 8
(B) 9
(C) 10
(D) 12

137. What is the percentage of students who got distinction?

(A) 28
(B) 35
(C) 38
(D) 40

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138. The percentage of students with distinction in mathematics is

(A) 17.8
(B) 18.6
(C) 19.2
(D) 20.6

139. In question given below, there are two statements labelled as Assertion (A) and Reason (R). Mark your answer as per the codes provided below:

Assertion(A): The pouring of kerosene on stagnant pools helps to eradicate malaria.
Reason (R): The kerosene is poisonous for the mosquitoes.

(A) Both A and R are true and R is the correct explanation of A.
(B) Both A and R are true but R is not the correct explanation of A.
(C) A is true but R is false.
(D) A is false but R is true.

140. In question given below, there are two statements labeled as Assertion (A) and Reason (R). Mark your answer as per the codes provided below:

Assertion(A): Graphite is slippery and used as a lubricant.
Reason (R): Graphite has free electrons.

(A) Both A and R are true and R is the correct explanation of A.
(B) Both A and R are true but R is not the correct explanation of A.
(C) A is true but R is false.
(D) A is false but R is true.

Directions: Study the following information and answer the questions given below it:

All the six members of a family A, B, C, D, E and F are travelling together. B is the son of C but C is not the mother of B. A and C are a married couple. E is the brother of C. D is the daughter of A. F is the brother of B.

141. How many children does A have?

(A) One
(B) Two
(C) Three
(D) Four

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142. Which of the following is a pair of females?

(A) AE
(B) BD
(C) DF
(D) AD

143. How is E related to D?

(A) Father
(B) Brother
(C) Uncle
(D) Cousin

144. Who is the mother of B?

(A) D
(B) F
(C) E
(D) A

145. **Direction**: Question given has a set of three or four statements I, II, III and IV. Each set of statements is further divided into three segments. Choose the alternative where the third segment in the statement can be logically deducted using both the preceding two, but not just from one of them.

I. All earthquakes cause havoc. Some landslides cause havoc. Some earthquakes cause landslides.
II. All glass things are transparent. Some curious are glass things. Some curious are transparent.
III. All clay objects are brittle. All X are clay objects. All X are brittle.
IV. No criminal is a patriot. Rohit is not a patriot. Rohit is a criminal.

(A) I only
(B) II only
(C) II and III
(D) IV only

146. Choose the alternative which resembles the mirror image of the given combination.

A1M3b

(A) ∀ıW3ꝑ
(B) ∀ıW3ꝑ
(C) ∀ſW3ꝑ
(D) ∀ſWƐꝑ

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147. Choose the alternative which resembles the mirror image of the given combination.

BK50RP62

(A) BK2ORP62
(B) BK2ORP6Ƨ
(C) BK2ORP6Ƨ
(D) BKSORP6Ƨ

148. Identify the figure that completes the pattern.



(X) (1) (2) (3) (4)

(A) (1)
(B) (2)
(C) (3)
(D) (4)

149. Identify the figure that completes the pattern.



(X) (1) (2) (3) (4)

(A) (1)
(B) (2)
(C) (3)
(D) (4)

150. If 'lead' is called 'stick', 'stick' is called 'nib', 'nib' is called 'needle', 'needle' is called 'rope' and 'rope' is called 'thread', what will be fitted in a pen to write with it?

(A) Stick
(B) Lead
(C) Needle
(D) Thread

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Subject Name: 103 BVOC									
SI No.	**Key**	**SI No.**	**Key**	**SI No.**	**Key**	**SI No.**	**Key**	**SI No.**	**Key**
1	D	31	C	61	B	91	B	121	B
2	C	32	D	62	B	92	B	122	B
3	A	33	B	63	A	93	C	123	B
4	A	34	D	64	B	94	A	124	D
5	B	35	B	65	B	95	D	125	D
6	A	36	C	66	D	96	A	126	C
7	B	37	C	67	B	97	A	127	A
8	D	38	A	68	B	98	C	128	B
9	A	39	C	69	A	99	B	129	D
10	A	40	A	70	B	100	C	130	C
11	B	41	B	71	B	101	B	131	D
12	A	42	B	72	B	102	A	132	A
13	C	43	B	73	B	103	D	133	D
14	A	44	C	74	A	104	D	134	D
15	A	45	B	75	D	105	A	135	C
16	D	46	B	76	B	106	C	136	A
17	D	47	D	77	B	107	C	137	C
18	A	48	A	78	B	108	B	138	A
19	B	49	B	79	A	109	C	139	C
20	A	50	A	80	A	110	A	140	B
21	A	51	B	81	A	111	B	141	C
22	C	52	A	82	D	112	D	142	D
23	B	53	A	83	D	113	C	143	C
24	C	54	B	84	B	114	B	144	D
25	A	55	D	85	B	115	C	145	C
26	B	56	D	86	B	116	B	146	C
27	D	57	D	87	C	117	C	147	B
28	B	58	D	88	C	118	B	148	B
29	C	59	A	89	C	119	C	149	A
30	A	60	D	90	D	120	C	150	C

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- Agricultural Entrance Exams
- Architecture Entrance Exam
- Arts and Humanities Entrance Exams
- Commerce Entrance Examinations
- Common Entrance Examinations
- Computer Application Entrance Exams
- Design Entrance Exams
- Education Entrance Exams
- Engineering Entrance Exams
- Hotel Management Entrance Exams
- Law Entrance Exams
- MBA Entrance Exams
- Media & Journalism Entrance Exams
- Medical Entrance Exams
- Nursing Entrance Exams
- Pharmacy Entrance Exams
- Science Entrance Exams
- Diploma & Polytechnic
- Lateral Entry