



Career Defence School, Ambala
Scholarship Cum
Admission Test

Entrance Exam

Class: VIII

Time: 1 Hrs

Exam Mode: Online

MM: 100

Test Paper - 1

General Instruction:

1. The question paper consists of four Sections – A, B, C, D.
2. All questions are compulsory.
3. There is no overall no choice.
4. All sub-questions under the main question carry equal marks.
5. Rough work, if required may be done on the last few pages of this question booklet, provided for the purpose.

For more details call at 74199-99228

Section - A (Reasoning)

1. Select the pair which is related in the same way as the pair of words given in the questions.

Rubber : Latex :: _____ : _____

- (a) Paper : Egg
- (b) Furniture : Wood
- (c) Yarn : Ore
- (d) Ore : Seed

Ans: (c)

2. Pointing towards a person in a photograph, Raman said, "She is the only daughter of the mother of my brother's sister". How is the person related to Raman?

- (a) Uncle
- (b) Nephew's
- (c) Mother
- (d) Sister

Ans: (a)

3. Find the missing number:

4, 9, 19, 34, 54, ?, 109

- (a) 89
- (b) 84
- (c) 74
- (d) 79

Ans: (c)

4. Complete the following series with correct options.

V R O K ? D

- (a) L
- (b) I
- (c) H
- (d) J

Ans: (c)

5. Find the odd man out of the following options.

- (a) O P Q T U
- (b) T U V Y Z

(c) C D E H I

(d) H I J N O

Ans: (a)

6. After walking 6 km in a direction, I turned to the right and then walked 2 km. After then I turned to the left and walked 10 km. In the end, I was moving towards the North. I started my journey moving in which direction?

- (a) North
- (b) South
- (c) East
- (d) West

Ans: (b)

7. If SABOTAGE is coded as UADOVAIE, how will EMERGENCY be coded in the same manner?

- (a) GMGRIEPCA
- (b) GMGREPCA
- (c) BNBQFDOBZ
- (d) EOETGGNEY

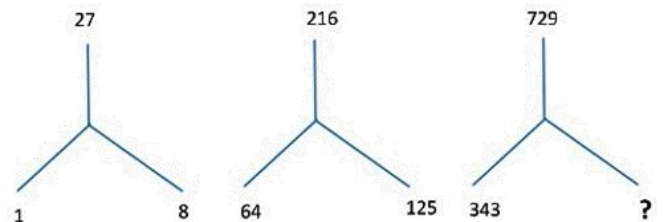
Ans: (a)

8. In a certain code language, (1) 'lo ni hie pun' stands for 'he is drinking coke', (2) 'hol ful gui pun' stands for 'she is eating food' and (3) 'ne ful ni lo' stands for 'drinking coke and food'. Which of the following words is the code for 'he'?

- (a) hie
- (b) lo
- (c) pun
- (d) ni

Ans: (c)

9. Insert the missing number in the given response.



- (a) 432
- (b) 334
- (c) 512
- (d) 501

Ans: c

10. Deepak ranks seventh from the top and twenty eight from the bottom in a class. How many students are there in the class?

- (a) 37 (b) 36
(c) 35 (d) 34

Ans: (d)

11. Which is the third number to the left of the number which is exactly in the middle of the following sequence of numbers?

1 2 3 4 5 6 7 8 9 2 4 6 8 9 7 5 3 1 9 8 7 6 5 4 3 2 1

- (a) 3 (b) 4
(c) 5 (d) 6

Ans: (c)

12. If $M + N$ means 'M' is the brother of 'N', $M - N$ means 'M' is the sister of 'N', $M \times N$ means 'M' is the mother of 'N' and $M \div N$ means 'M' is father of 'N', then which of the following would mean 'E' is the Paternal Aunt of 'F'?

- (a) $E - G \div F$ (b) $E + G \times F$
(c) $E \times F - G$ (d) $F \times G + E$

Ans: (c)

13. Find the missing number.

3, 15, 90, 6300, 5040, ?

- (a) 35280 (b) 40320
(c) 45360 (d) 10080

Ans: (c)

14. Which of the following does not match with the group?

- (a) TPQQPT (b) MGRRGM
(c) NCRNCR (d) BEFFEB

Ans: (c)

15. Rohan walks a distance of 3 km towards North, then turns to his left again and walks for 3 km. How far is he from the starting point?

- (a) 1 km (b) 2 km
(c) 3 km (d) 4 km

Ans: (c)

16. In a certain code FINGER is written as DGLECP, what will be the code for KIDNEY?

- (a) IGBLCW (b) IGCLBW
(c) IBCGLE (d) IGBKCV

Ans: (d)

17. The position of the first and the sixth digits in the number '4529861537' are interchanged, similarly the position of the second and the seventh digits are interchanged and so on. Which of the following will be the SEVENTH digit from the left end after the rearrangement?

- (a) 6 (b) 3
(c) 4 (d) 8

Ans: (b)

18. Find the missing number

2 14 21 28

3 21 28 35

4 ? 35 ?

- (a) 35 and 29 (b) 28 and 42
(c) 21 and 22 (d) 49 and 28

Ans: (b)

19. B is in the East of A and North of C. If M is in the South of C, then in which direction of B is M?

- (a) North (b) South
(c) South - East (d) None of these

Ans: (b)

20. Complete the analogy

6 : 42 :: 5 : ?

- (a) 40 (b) 30
(c) 35 (d) 45

Ans: (c)

21. Complete the series:

ab _ cba _ bcc _ aabccb _ _ bccba

- (a) abcac (b) cccab
(c) cabaa (d) abcab

Ans: (b)

22. Four out of the following numbers have some similarity and hence, they form a group. Find out the number which does not suit in the group.

- (a) 58423 (b) 55623
(c) 51223 (d) 57223

Ans: (a)

23. Select the pair of words which are related in the same way as 'current' is related to 'Ampere'.

- (a) Power : Energy (b) Pressure : Time
(c) Force : Newton (d) Mass : Metre

Ans: (a)

24. Ujjawal said to a man, pointing to a photo that "His mother is the wife of the son of my father. I have neither a brother nor a sister". On the basis of above whose photo was that?

- (a) Cousin brother (b) Nephew's
(c) Son's (d) Uncle's

Ans: (b)

25. Find the missing number

27, 28, 25, 23, 22, 21

- (a) 20 (b) 21
(c) 19 (d) 18

Ans: (d)

Section - B (Mathematics)

26. m and n are integers and $\sqrt{mn} = 10$. Which of the following cannot be a value of m + n?

- (a) 25 (b) 52
(c) 101 (d) 50

Ans: (d)

27. When the number $N = 0.735\overline{45}$ is written as a fraction in its lowest terms, the denominator exceeds the numerator by

- (a) 199 (b) 299
(c) 109 (d) 219

Ans: (b)

28. The HCF of two numbers each consisting of 4 digits is 103 and their LCM is 19261. The numbers are

- (a) 1133, 1751 (b) 1053, 1657
(c) 1061, 1111 (d) 1591, 1377

Ans: (a)

29. Find the greatest number of five digits which when divided by 4, 6, 14 and 20 leaves respectively 1, 3, 11 and 17 as remainders.

- (a) 99930 (b) 99960
(c) 99997 (d) 99957

Ans: (d)

30. The least integer that must be added to (9798×9792) to make it a perfect square is

- (a) 9 (b) 8
(c) 7 (d) 6

Ans: (a)

31. Find the least number which if added to 17420 will make it a perfect square?

- (a) 3 (b) 5

(c) 9 (d) 4

Ans: (d)

32. $(4)^{0.5} \times (0.5)^4$ is equal to

(a) 1 (b) 4
(c) $1/8$ (d) $1/32$

Ans: (c)

33. Find the greatest number of six digits which on being divided by 6, 7, 8, 9 and 10 leaves 4, 5, 6, 7 and 8 as remainder respectively.

(a) 997920 (b) 997918
(c) 997922 (d) 997930

Ans: (b)

34. If $x + y + z = 0$, then $x^2 + xy + y^2$ equals:

(a) $y^2 + yz + z^2$
(b) $y^2 - yz + z^2$
(c) $z^2 - xy$
(d) $z^2 + zx + x^2$

Ans: (c)

35. The difference between any number of four digits and the number formed by using the digits in the reserved order is exactly divisible by

(a) 11 (b) 10
(c) 9 (d) 5

Ans: (c)

36. Factorise: $(m + a)(n - b) - (m + b)(n - a)$

(a) $(a - b)(m - n)$
(b) $(a + b)(m - n)$
(c) $(a - b)(m + n)$
(d) $(a - b)(m - n)$

Ans: (c)

37. A person spends $(1/3)$ of the money with him on clothes, $(1/5)$ of the remaining on food

and $(1/4)$ of the remaining on travel. Now he is left with Rs.100. How much did he have with him in the beginning?

(a) Rs.200 (b) Rs.250
(c) Rs.300 (d) Rs.450

Ans: (b)

38. ABCD is a rectangle, sides 36 cm and 90 cm. P is a point on BC which is one of the longer sides such that $PA = 2PD$. The length of PB is

(a) 80 cm (b) 18 cm
(c) 72 cm (d) 64 cm

Ans: (c)

39. If 1 is added to the age of the elder sister, then the ratio of the ages of the two sisters becomes $0.5 : 1$, but if 2 is subtracted from the age of the younger one, the ratio becomes $1 : 3$. The age of the younger sister will be

(a) 9 years (b) 5 years
(c) 18 years (d) 15 years

Ans: (b)

40. On selling a pen at 5% loss and a book at 15% gain, Karim gains Rs.7. If he sell the pen at 5% gain and the book at 10% gain, then he gains Rs.13. The actual price of the book is

(a) Rs.100 (b) Rs.80
(c) Rs.10 (d) Rs.400

Ans: (b)

41. The root of the equation $x^2 - 8x + 15 = 0$ are

(a) 2, 3 (b) 3, 5
(c) 8, 15 (d) 6, 5

Ans: (b)

42. The speed of a boat in still water is 15 km/hr. It can go 13 km upstream and return

downstream to the original point in 4 hrs 30 min. The speed of the stream is

- (a) 5 km/hr (b) 8 km/hr
(c) 10 km/hr (d) 15 km/hr

Ans: (a)

43. The difference between the quotients when 192 is divided by two numbers one of which is a square of the other is 21. The numbers are

- (a) 4, 16 (b) 16, 256
(c) 9, 81 (d) 8, 64

Ans: (d)

44. A bottle is full of Dettol. One - third of it is taken out and then an equal amount of water is poured into the bottle to fill it. This operation is done four times. Find the final ratio of Dettol and water in the bottle

- (a) 13 : 55 (b) 20 : 74
(c) 16 : 65 (d) 10 : 48

Ans: (a)

45. In an examination in which full marks were 800, A gets 20% more than B, B gets 20% more than C, and C gets 15% less than D. If A got 756, what percentage of full marks did D get (approximately)?

- (a) 45.7 (b) 51.2
(c) 58.8 (d) 61.7

Ans: (c)

46. There are some coins and rings of either gold or silver in a box. 60% of the objects are coins. 40% of the rings are of gold and 30% of the coins are of silver. What is the percentage of gold articles?

- (a) 16 (b) 27
(c) 58 (d) 70

Ans: (d)

47. A retailer gets a discount of 40% on the printed price of an article. The retailer sells it at the printed price. What is the gain or loss percent?

- (a) 12% gain (b) 12% loss
(c) 10% gain (d) 10% loss

Ans: (b)

48. The average of 5 consecutive numbers is m. If the next three natural numbers are also included, how much more than m will the average of these 8 numbers be?

- (a) 2 (b) 1
(c) 1.4 (d) 1.5

Ans: (d)

49. There are four natural numbers. The average of any three numbers is added in the fourth number and in this way the numbers 29, 23, 21 and 17 are obtained. One of the number is

- (a) 11 (b) 24
(c) 21 (d) 10

Ans: (c)

50. Divide Rs.2379 into 3 parts, so that their amounts after 2, 3 and 4 years respectively may be equal the rate of interest being 5% per annum at simple interest. The first part is

- (a) Rs.759 (b) Rs.792
(c) Rs.818 (d) Rs.828

Ans: (d)

Section - C (General Knowledge)

51. Which of the following refers to the practice by which a powerful country controls another capacity?

- (a) Casteism (b) Socialism
(c) Colonization (d) Sati System

Ans: (c)

52. Which one of the following was the capital of Tipu Sultan?

- (a) Awadh
- (b) Mangalore
- (c) Seringapatnam
- (d) Mysore

Ans: (d)

53. Who among the following was the leader of the Kherwar Movement?

- (a) Bhagrit Manjhi
- (b) Birsa Munda
- (c) Sidhu Kahnu
- (d) None of these

Ans: (a)

54. The first cotton textile mill was set up in India at

- (a) Ahmedabad
- (b) Bombay
- (c) Madras
- (d) Surat

Ans: (b)

55. Ghadar Party was formed at

- (a) Chicago
- (b) Europe
- (c) USA
- (d) India

Ans: (c)

56. Gulamgiri was written by

- (a) Veersaligam
- (b) Dayanand Saraswati
- (c) Jyotirao Phule
- (d) Sridharalu Naidu

Ans: (c)

57. Who among the following was famous for 'Shiva - Nritya'?

- (a) Uday Shankar
- (b) V.N. Menon

(c) Rabindra Nath Tagore

(d) Shivanandani

Ans: (a)

58. In the Presidential Form of Government, the Prime Minister is the

- (a) nominal head of the State
- (b) real head of the State
- (c) Presiding officer of the Parliament
- (d) None of these

Ans: (c)

59. The proposal for a law is called a/an

- (a) act
- (b) amendment
- (c) bill
- (d) None of these

Ans: (c)

60. Our judicial system includes

- (a) the supreme court
- (b) the High Courts
- (c) the Subordinate Courts
- (d) all of these

Ans: (d)

61. The power house of cell is called

- (a) Cell wall
- (b) Mitochondria
- (c) Ribosomes
- (d) Nucleus

Ans: (b)

62. The shape of the airplane is like a

- (a) Bird
- (b) Car
- (c) Dog
- (d) All of these

Ans: (a)

63. Penicillium is a

- (a) Algae
- (b) Fungus
- (c) Bacteria
- (d) Yeast

Ans: (b)

64. Watering the crops is called:

- (a) sowing
- (b) manuring
- (c) tilling
- (d) irrigation

Ans: (b)

65. The most reactive metal is:

- (a) Iron
- (b) Gold
- (c) Zinc
- (d) Potassium

Ans: (d)

66. Sound is kind of

- (a) Work
- (b) Energy
- (c) Force
- (d) None

Ans: b

67. The strength of force is expressed by?

- (a) weight
- (b) mass
- (c) magnitude
- (d) longitudinal force

Ans: c

68. Poor conductors are

- (a) Plastics
- (b) Clothes
- (c) Wood
- (d) All of these

Ans: (d)

69. Air pollution causes

- (a) Global warming
- (b) Respiratory problems
- (c) Soil erosion
- (d) None of these

Ans: (b)

70. A sperm consists of

- (a) One part
- (b) Two parts
- (c) Three parts
- (d) Four parts

Ans: (c)

71. Which planet appears to be yellowish?

- (a) Asteroids
- (b) Mars
- (c) Uranus
- (d) Saturn

Ans: c

72. The shaking of earth is called

- (a) Tsunami
- (b) Volcano
- (c) Earthquake
- (d) All of these

Ans: (c)

73. The charge acquired by a glass rod when it is rubbed with silk is

- (a) Negative
- (b) Positive
- (c) Both of these
- (d) None of these

Ans: (c)

74. Tissue is a

- (a) Group of organs
- (b) Group of cells
- (c) Group of tissues
- (d) Group of organisms

Ans: (b)

75. Metal oxides are of nature

- (a) Acidic
- (b) Basic
- (c) Neutral
- (d) All of these

Ans: (b)

Section - D (English)

Directions (76 - 77): choose the most appropriate option to fill in the blanks.

76. Happiness consists in being _____ what we have?

- (a) contented to
- (b) contented with
- (c) contented for
- (d) contented in

Ans: (b)

77. His rude behaviour is a _____ his organization.

- (a) disgrace for
- (b) disgrace on
- (c) disgrace upon
- (d) disgrace to

Ans: (d)

Direction (78 - 82): Read the passage and then answer the questions based on it. You are required to select your answers based on the content of the passage and opinion of the author only

Passage

While I stood drinking in the beauty of this placid scene I became conscious of an alteration. In a moment the sole porter emerged from his midday nap, operated a signal that clanked noisily into position, and then ambled slowly towards me for my return-halfticket, whilst I remarked that his red amiable face and easygoing gait were in perfect harmony with the tranquil surroundings. A wisp of smoke on the horizon with a dark snake crawling beneath it announced the approach of the train. As it drew nearer, the deep silence of the place was gradually displaced by a creaking of brakes and a hissing of steam. Save for myself, no one entered the train and no one alighted. The porter with leisurely expertness, trundled a couple of milk churns on board, the door was slammed, the guard signalled to the driver, and we moved off, leaving the small station once more to its drowsy silence.

78. The meaning of drowsy is

- (a) Untidy
- (b) Sleepy
- (c) Freezing
- (d) Drugged

Ans: (b)

79. The central idea of the passage is

- (a) Leisure and Peace
- (b) Hurry and Noise
- (c) Activity
- (d) The Porter

Ans: (a)

80. Who had a midday nap?

- (a) The author
- (b) The passenger
- (c) The Station-master

(d) The porter

Ans: (d)

81. Who/what does first break the silence of the station?

(a) The train (b) The porter

(c) The passenger (d) Milk churns

Ans: (b)

82. What does the author suggest by the word 'placid'?

(a) The scene was filled with noise of the train

(b) The place was filled with lively humanity

(c) The place was quite and lonely

(d) The horizon looked smoke laden

Ans: (c)

Directions (83 - 85): In questions given below out of four alternatives choose the one which can be substituted for the given word/sentence.

83. A place where bees are kept in called

(a) An apiary

(b) A mole

(c) A hive

(d) A sanctuary

Ans: (a)

84. A religious discourse

(a) Preach

(b) Stanza

(c) Sanctorum

(d) Sermon

Ans: (d)

85. Parts of a country behind the coast or a river's banks

(a) Isthmus

(b) Archipelago

(c) Hinterland

(d) Swamps

Ans: (c)

Direction (86 - 89): Select the word or group of words that is most similar in meaning to the words in capital letters.

86. PALPABLE

(a) Trembling

(b) Weak

(c) Obvious

(d) Foolish

Ans: (c)

87. USURP

(a) To climb upon

(b) to yield

(c) To seize power or position illegally

(d) To demand unlawfully high interest on a loan

Ans: (c)

88. GLEAN

(a) To groom

(b) To gather bit by bit

(c) To discover

(d) To polish

Ans: (b)

89. TACTILE

(a) Considerate

(b) Strong

(c) Sharp

(d) Pertaining to the organs of touch

Ans: (d)

Direction (90 - 93): Select the word or group of words that is most opposite in meaning to the words in capital letters.

90. OUTLANDISH

(a) Modern

(b) Moderate

(c) Disrespectful

(d) Coward

Ans: (a)

91. ABSOLVE

(a) To remember someone fondly

(b) To imitate someone

(c) To pretend

(d) To declare someone guilty

Ans: (d)

92. DEFERENTIAL

(a) Discount

(b) Disrespectful

(c) Preconception

(d) Acute

Ans: (b)

93. FELICITOUS

(a) Unfriendly

(b) Uneasy

(c) Unheard of

(d) Inappropriate

Ans: (d)

94. I cannot get along with a man who plays fast and loose.

(a) behaves in an unreliable and insincere way

(b) has a loose tongue

(c) lives a life of ease and luxury

(d) does not know how to behave himself

Ans: (a)

95. There is no love lost between two neighbours.

(a) close friendship

(b) cool indifference

(c) intense dislike

(d) a love hate relationship

Ans: (c)

96. Why do you wish to tread on the toes?

(a) To give offence to them

(b) To follow them grudgingly

(c) To treat them indifferently

(d) To be kicked by them

Ans: (a)

Direction (97 - 98): Choose the correct spelling of the given word:

97. (a) Forefiet

(b) Forefeit

(c) Forfeit

(d) Forfiet

Ans: (c)

98. (a) Comemorate

(b) Commemorate

(c) Momemorate

(d) Commemorate

Ans: (d)

99. (a) Excessive

(b) Exccessive

(c) Exxcesive

(d) Excesive

Ans: (a)

100. (a) Indipensable

(b) Indipenseble

(c) Indispansible

(d) Indispensable

Ans: (d)