CAREER DEFENCE SCHOOL, AMBALA

SCHOLARSHIP TEST FOR SESSION **2022-23**

FOR ADMISSION TO CLASS – IX

Time: 2 Hrs   **Max. Marks: 100**

Subject	M. Marks	M.OBTD	TEACHER	SIG
Mathematics	25			
Reasoning	25			
English	25			
General Knowledge	25			

General Instructions:

1. The candidates are advised to fill the columns correctly.

2. The booklet is divided into four parts i.e. Mathematics, English, Hindi, Maths.

3. Candidate should check the booklet carefully and if there is any defect or discrepancy, the same should be requested for replacement.

4. The candidates are required to solve the question on the booklet only.

5. The candidates are not allowed to write or mention anything on the booklet which can reveal his/her identity.

6. There will be no negative marking for wrong answers.

Mathematics (25 Marks)

1. The reciprocal of any rational number $\frac{p}{q}$, where p and q are integers and q ≠ 0, is
   (a) $\frac{p}{q}$
   (b) 1
   (c) 0
   (d) $\frac{q}{p}$

2. If $\frac{3}{x-4}$ < 0, then what is range of x?
   (a) $x < 4$
   (b) $x < 5$
   (c) $x < 3$
   (d) $x < 2$

3. For which of the following figures, diagonals are equal?
   (a) Trapezium
   (b) Rhombus
   (c) Parallelogram
   (d) Rectangle

4. To construct a rectangle, you must have one side and:
   (a) its opposite sides
   (b) its adjacent sides
   (c) two angles
   (d) four angles

5. In a school only, 3 out of 5 students can participate in a competition. What is the probability of the students who do not make it to the competition?
   (a) 0.65
   (b) 0.4
   (c) 0.45
   (d) 0.6

6. What of the following cannot be a perfect square?
   (a) 841
   (b) 529
   (c) 198
   (d) All of these

7. If m is the cube root of n, then n is
   (a) m^3
   (b) $\sqrt{m}$
   (c) $\frac{m}{3}$
   (d) $\sqrt[3]{m}$

8. The original price of a washing machine which was bought for Rs.13,500 inclusive of 8% VAT is
   (a) Rs.12,420
   (b) Rs.14,580
   (c) Rs.12,500
   (d) Rs.13,492

9. A sum is taken for two years at 16% p.a. If interest is compounded after every three months, the number of times for which interest is charged in 2 years is:
   (a) 8
   (b) 4
   (c) 6
   (d) 9

10. a (b + c) = ab + ac is
    (a) Commutative property
    (b) Distributive property
    (c) Associative property
    (d) Closure property

11. In a blueprint of a room, an architect has shown the height of the room as 33cm. If the actual height of the room is 330 cm, then the scale used by her is
    (a) 1 : 11
    (b) 1 : 10
    (c) 1 : 100
    (d) 1 : 3

12. A cube of side 4 cm is cut into 1 cm cubes. What is the ratio of the surface areas of the original cubes and cut-out cubes?
    (a) 1 : 2
    (b) 1 : 3
    (c) 1 : 4
    (d) 6 : 1

13. Which of the following can be the base of a pyramid?
    (a) Line Segment
    (b) Circle
    (c) Octagon
    (d) Oval

14. The product of a monomial and a binomial is a
    (a) monomial
    (b) binomial
    (c) trinomial
    (d) None of these

15. Simple interest on Rs.1000 for 2 years at the rate of 5% per annum is
    (a) Rs.100
    (b) Rs.120
    (c) Rs.140
    (d) Rs.80

16. If 16 shirts of equal size can be made out of 24 m of cloth, how much cloth is needed for making one shirt?
    (a) 1.05 m
    (b) 1.15 m
    (c) 1.3 m
    (d) 1.5 m

17. Seven times a number is 49, What is the number?
    (a) 5
    (b) 7
    (c) 9
    (d) 11

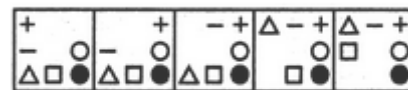18. The number of sides of a regular polygon whose each interior angle is of 135° is

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

19. What is the point of intersection of the medians of a triangle called?
(a) circumcentre   (b) in centre
(c) centroid   (d) orthocentre

20. Listed below are the temperature in °C for 10 days $-6, -8, -7, 0, 3, 2, 1, 5, 4, 4$. What is the range of date?
(a) 8°C   (b) 13°C
(c) 10°C   (d) 12°C

21. A number ending with 9 will have the units place of its square as:
(a) 3   (b) 9
(c) 1   (d) 6

22. Which of the following numbers must be subtracted from 345 to get a perfect cube?
(a) 121   (b) 131
(c) 2   (d) 24

23. A man got 10% increase in his salary. If his new salary is 154000, find his original salary?
(a) Rs.160000   (b) Rs.150000
(c) Rs.140000   (d) Rs.130000

24. A cube of side 5 cm is painted on all its faces. It is sliced into 1 centimetre cubes, how many 1 cubic centimetre cubes will have exactly one of their faces painted?
(a) 27   (b) 42
(c) 54   (d) 142

25. Let x be any non – zero integer and m, n be negative integer. Then $x^m \times x^n$ is equal to
(a) x^m (b) x^{m+n}
(c) x^n (d) x^{m-n}

Reasoning (25 Marks)

26. Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?
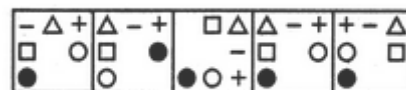(a) Brother   (b) Nephew
(c) Uncle   (d) Son-in-Law

27. Golu started from his house towards North. After covering a distance of 8 km. he turned towards left and covered a distance of 6 km. What is the shortest distance now from his house?
(a) 10 km   (b) 16 km
(c) 14 km   (d) 2 km

28. Choose the word which is different from the rest:
(a) Flute   (b) Guitar
(c) Sitar   (d) Veena

29. Find out the alternative which will replace the question mark: **Country : President :: State : ?**
(a) Governor   (b) M.P
(c) Legislator   (d) Minister

30. Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next?
(a) 22   (b) 24
(c) 25   (d) 26

31. Fill the blank in the middle of the series or end of the series. "ELFA, GLHA, ILJA, _____, MLNA"
(a) OLPA   (b) KLMA
(c) LLMA   (d) KLLA

32. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.
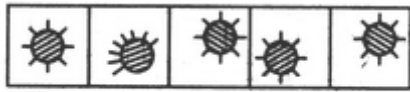
Problem Figures:

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

Answer Figures:

(1)   (2)   (3)   (4)   (5)

(a) 1   (b) 2
(c) 3   (d) 4
(e) 5

33. Choose the figure which is different from the rest.

(1)   (2)   (3)   (4)   (5)

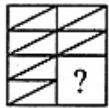(a) 1   (b) 2
(c) 3   (d) 4
(e) 5

34. Choose the alternative which is closely resembles the water-image of the given combination.

A1M3b
(1) ∀ƖW3P   (2) ∀ƖW3P
(3) ∀⅃W3P   (4) ∀⅃WƐP

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

35. Identify the figure that completes the pattern.

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

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

36. Pointing to a boy in the photograph Reena said, "He is the only son of the only child of my grandfather." How Reena is related to that boy?
(a) Mother
(b) Sister
(c) Aunt
(d) Cannot be determined

37. Look at this series: 80, 10, 70, 15, 60, ... What number should come next?
(a) 20   (b) 25
(c) 30   (d) 50

38. Arrange the words given below in a meaningful sequence.
1. Word   2. Paragraph
3. Sentence   4. Letters
5. Phrase
(a) 4, 1, 5, 2, 3
(b) 4, 1, 3, 5, 2
(c) 4, 2, 5, 1, 3
(d) 4, 1, 5, 3, 2

39. Find the missing letters while using logical reasoning:
AM, BN, EI, FJ, CO, DP, GK, __
(a) HL   (b) PQ
(c) QR   (d) HG

40. What will be the day of the week 15th August, 2010?
(a) Sunday   (b) Monday
(c) Tuesday   (d) Friday

41. How many times are the hands of a clock at right angle in a day?
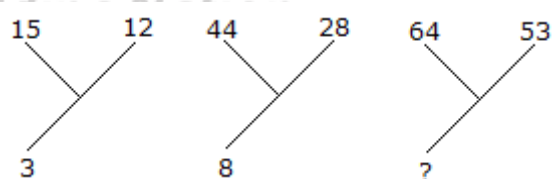(a) 22   (b) 24
(c) 44   (d) 48

42. Pointing to Varman, Madhav said, "I am the only son of one of the sons of his father." How is Varman related to Madhav?
(a) Nephew
(b) Uncle
(c) Father or Uncle
(d) Father

43. In a certain code language, 'PICTURE' is written as 'QHDSVQF'. How would 'BROWSER' be written in that same code language?
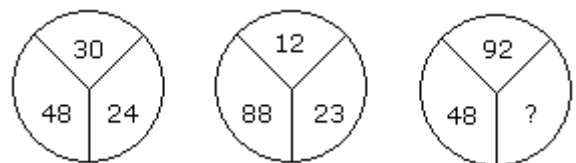(a) CQVVTDS   (b) CQPVTDS
(c) CQPUTDS   (d) CQVPPDS

44. Which one will replace the question mark?

15   12   44   28   64   53

3   8   ?

(a) 30   (b) 13
(c) 70   (d) 118

45. Which one will replace the question mark?
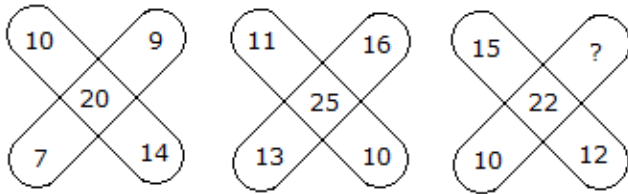

(a) 60   (b) 45
(c) 86   (d) 75

46. James and Henry were standing facing each other at 8AM. Shadow of the Henry

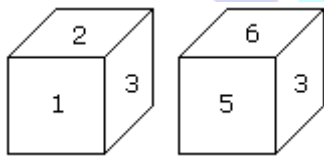fell exactly to his right. To which direction was James facing?

(a) East   (b) South

(c) North

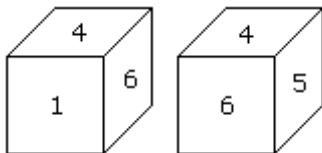(d) Data is inadequate

47. Which one will replace the question mark?

(a) 6   (b) 7

(c) 8   (d) 9

48. Which digit will appear on the face opposite to the face with number 4?

(a) 3   (b) 5

(c) 6   (d) 2/3

49. Two positions of a dice are shown below. When number '1' is on the top. What number will be at the bottom?

(a) 3   (b) 5

(c) 2   (d) 6

50. Sachin walks 20 km towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally he moves 20 km after turning to the left. How far is he from his starting position?

(a) 20 km   (b) 30 km

(c) 50 km   (d) 60 km

English (25 Marks)

51. Choose the word which best expresses the meaning of the given word **"DEIFY"**

(a) Flatter   (b) Challenge

(c) Worship   (d) Face

52. Choose the word which best expresses the meaning of the given word **"VENUE"**

(a) Place   (b) Agenda

(c) Time   (d) Duration

53. Choose the word which best expresses the meaning of the given word **"CANDID"**

(a) Apparent   (b) Explicit

(c) Frank   (d) Bright

54. Choose the word which is the exact OPPOSITE of the given words. **"ZENITH"**

(a) Acme   (b) Top

(c) Nadir   (d) Pinnacle

55. Choose the word which is the exact OPPOSITE of the given words. **"DOUBTFUL".**

(a) Famous   (b) Certain

(c) Fixed   (d) Important

56. Choose the word which is the exact OPPOSITE of the given words. **"REPRESS"**

(a) Inhibit   (b) Liberate

(c) Curb   (d) Quell

57. Find the correctly spelt words.

(a) Survaillance   (b) Surveillance

(c) Survellance   (d) Surveilance

58. Find the correctly spelt words.

(a) Judicious   (b) Cancious

(c) Dilicous   (d) Gracous

59. Find the correctly spelt words.

(a) Friming   (b) Burnning

(c) Running   (d) Fryng

60. Pick out the most effective word(s) from the given words to fill in the blank to make the sentence meaningfully complete. **"Pakistan lost a ...... wicket just when they seemed to be doing so well, and that led to their eventual defeat."**

(a) critical   (b) crucial

(c) sensitive   (d) providential

61. Pick out the most effective word(s) from the given words to fill in the blank to make the sentence meaningfully complete. **"In high school many of us never realised the importance that grammar would ...... in later life."**
    (a) figure   (b) portray
    (c) play   (d) exercise

62. Pick out the most effective word(s) from the given words to fill in the blank to make the sentence meaningfully complete. **"The American ...... presented his credentials to the President of India."**
    (a) adviser   (b) ambassador
    (c) delegate
    (d) representative

63. Choose the one which can be substituted for the given word/sentence. **"A person of good understanding knowledge and reasoning power"**
    (a) Expert   (b) Intellectual
    (c) Snob   (d) Literate

64. Choose the correct alternative. In case no improvement is needed, option 'D' is the answer. "Will you kindly **open** the knot?"
    (a) untie
    (b) break
    (c) loose
    (d) No improvement

65. Choose the correct alternative. In case no improvement is needed, option 'D' is the answer. "He **sent a word** to me that he would be coming late."
    (a) sent word
    (b) had sent a word
    (c) sent words
    (d) No improvement

66. Choose the correct alternative. In case no improvement is needed, option 'D' is the answer. "John **had told** me that he hasn't done it yet."
    (a) told

    (b) tells
    (c) was telling
    (d) No improvement

67. Tick the correct option: "We _____ of the matter only the morning.
    (a) are being informed
    (b) were informed
    (c) had informed
    (d) have informed

68. Tick the correct option: "Whatever precautionary measures needed _____."
    (a) have taken
    (b) had taken
    (c) have been taking
    (d) have been taken

69. Tick the correct option: "The teacher _____ the new arrangement, which will take effect tomorrow."
    (a) has announced
    (b) has been announced
    (c) is announced
    (d) is being announced

70. Tick the correct option: "They _____ not to go near the building.
    (a) have warned
    (b) have been warning
    (c) have been warned
    (d) are warning

71. Tick the correct option: Receptionists must be able to relay information _____ pass messages accurately.
    (a) or   (b) and
    (c) but   (d) because

72. Tick the correct option: I did not go the show _____ I had already seen it.
    (a) until   (b) because
    (c) so   (d) but

73. Tick the correct option: Mary is a member of the Historical Society _____ the Literary Society.
    (a) as   (b) or
    (c) and   (d) but

74. Tick the correct option: Read over your answers _____ correct all mistakes before you pass them up.
(a) or
(b) and
(c) because
(d) while

75. Keep the food covered _____ the flies will contaminate it.
(a) or
(b) and
(c) until
(d) though

General Knowledge (25 Marks)

76. When did the Battle of Buxsar take place?
(a) 1761
(b) 1764
(c) 1757
(d) 1760

77. Which ruler is known as Tiger of Mysore?
(a) Tipu Sultan
(b) Haider Ali
(c) Bahadur Shah Jafar
(d) Sirajuddaula

78. Which of the following is a renewable resource?
(a) Coal
(b) Petroleum
(c) Gold
(d) Water

79. Which of the following is not a factor of soil formation?
(a) Time
(b) Soil texture
(c) Organic Matter
(d) Climate

80. In which year was the Constituent Assembly formed?
(a) 1945
(b) 1946
(c) 1947
(d) 1950

81. India is a _____ country.
(a) Secular
(b) Hindu
(c) Sikh
(d) Muslim

82. Silicon Valley is located in
(a) Pune
(b) California
(c) Ahmedabad
(d) Delhi

83. Who was the founder of Arya Samaj?
(a) Raja Ram Mohan Roy
(b) Swami Dayananda Saraswati
(c) Swami Vivekanand
(d) Ishwar Chand Vidyasagar.

84. Who was Raja Ravi Varma?
(a) Teacher
(b) Artist
(c) Doctor
(d) Administrative Officer

85. India has _____ levels of judiciary system.
(a) 3
(b) 6
(c) 4
(d) 2

86. Untouchability has been abolished under which article of Indian Constitution?
(a) Article 15
(b) Article 16
(c) Article 17
(d) Article 18

87. A ball rolling along the ground gradually shows down and finally comes to rest is an example of
(a) muscular force
(b) magnetic force
(c) frictional force
(d) electrostatic force

88. Four children are asked to arrange forces due to rolling, static and sliding friction in decreasing order. The correct arrangement is
(a) rolling, static, sliding
(b) rolling, sliding, static
(c) static, sliding, rolling
(d) sliding, static, rolling

89. Sound can travel through
(a) solids only
(b) liquids only
(c) gases only
(d) solids, liquids and gases

90. The passage of an electric current through a conducting liquids causes.
(a) heating effects of current
(b) magnetic effects of current
(c) chemical effects of current
(d) electric effects of current

91. Which of the following cannot be charged easily by friction?
(a) A plastic scale
(b) A copper rod
(c) An inflated balloon
(d) A woolen clothes

92. Angle of incidence is equal to the angle of reflection:
(a) always   (b) sometimes
(c) under special conditions
(d) never

93. Which of the following is not a planet of the sun?
(a) Sirius   (b) mercury
(c) Saturn   (d) earth

94. Which one is the example of Kharif crop?
(a) wheat   (b) gram
(c) pea   (d) paddy

95. Least polluting fuel for vehicles is
(a) petrol   (b) diesel
(c) CNG   (d) Kerosene

96. A unit of inheritance in living organisms:
(a) nucleus   (b) chromosome
(c) gene   (d) Cell

97. Metals are not used in making:
(a) Machinery   (b) An antiseptic
(c) Satellite   (d) Utensils

98. Which of the following is not a public facility?
(a) Water   (b) Electricity
(c) House   (d) School

99. Our constitution guarantees the Right to Education for all the children between the ages of
(a) 6 – 14 years   (b) 6 – 12 years
(c) 5 – 10 years   (d) 5 – 12 years

100. What are the source of water in rural areas?
(a) Wells   (b) Handpumps
(c) Ponds   (d) All of these