Career Defence School
Scholarship Test
For Class 8th

Mathematics (25 Marks)

1. For a non-zero integer a which of the following is not defined?
   (a) a ÷ 0
   (b) 0 ÷ a
   (c) a ÷ 1
   (d) 1 ÷ a
   Ans: (a)

2. The next number in the pattern – 62, – 37, – 12 _____ is
   (a) 25
   (b) 13
   (c) 0
   (d) – 13
   Ans: (b)

3. The decimal expression for 8 rupees 8 paise (in Rupees) is
   (a) 8.8
   (b) 8.08
   (c) 8.008
   (d) 88.0
   Ans: (b)

4. Which measures of central tendency get affected if the extreme observations on both the ends of a data arranged in descending order are removed?
   (a) Mean and Mode
   (b) Mean and Median
   (c) Mode and Median
   (d) Mean, Median and Mode
   Ans: (a)

5. If a and b are positive integers, then the solution of the equation $ax = b$ will always be a
   (a) positive number
   (b) negative number
   (c) 1
   (d) 0
   Ans: (a)

6. Angles which are both supplementary and vertically opposite are:
   (a) 95°, 85°
   (b) 90°, 95°
   (c) 100°, 80°
   (d) 45°, 45°
   Ans: (b)

7. Angles of a triangle are in the ratio 1 : 2 : 3. The smallest angle is
   (a) 15°
   (b) 90°
   (c) 60°
   (d) 30°
   Ans: (d)

8. An article purchased for Rs.1000 is sold for Rs.1100. What is his gain percentage?
   (a) 40%
   (b) 30%
   (c) 20%
   (d) 10%
   Ans: (d)

9. Interest on Rs.12000 for 1 month at the rate of 10% per annum is:
   (a) Rs.1200
   (b) Rs.600
   (c) Rs.100
   (d) Rs.12100
   Ans: (c)

10. Which of the following rational numbers is equal to its reciprocal?
    (a) 1
    (b) 2
    (c) $\frac{1}{2}$
    (d) 0
    Ans: (a)

11. What will be the area of the largest square that can be cut out of a circle of radius 10 cm?
    (a) 100 cm^2
    (b) 200 cm^2
    (c) 300 cm^2
    (d) 400 cm^2
    Ans: (a)

12. The side length of the top of square table is x. The expression for perimeter is
    (a) 4 + x
    (b) 2x
    (c) 4x
    (d) 8x
    Ans: (c)

13. Which of the following is the simplest form of $9 \times 10^3 + 2 \times 10^2$?
    (a) 9000
    (b) 9002
    (c) 9200
    (d) 209
    Ans: (c)

14. Which of the following letters of the English alphabet has reflectional symmetry about a vertical mirror?
    (a) A
    (b) B
    (c) C
    (d) D
    Ans: (a)

15. The shadow of a cone, when seen under the lamp of an overhead projector is
    (a) Square   (b) Rectangle
    (c) Circle   (d) Triangle
    Ans: (d)

16. Khilona earned scores of 97, 73 and 88 respectively in her first three examinations. If she scored 80 in the fourth examination, then her average score will be
    (a) increased by 1
    (b) increased by 1.5
    (c) decreased by 1
    (d) decreased by 1.5
    Ans: (d)

17. Which of the following is the value of 'm' in the equation $3m - 14 = 4$.
    (a) 4   (b) 5
    (c) 6   (d) 7
    Ans: (c)

18. Which one of the following is not a criterion for congruence of two triangles?
    (a) ASA   (b) SSA
    (c) SAS   (d) SSS
    Ans: (b)

19. The range of the data 14, 6, 12, 17, 21, 10, 4, 3 is
    (a) 21   (b) 17
    (c) 18   (d) 11
    Ans: (c)

20. In a scout camp. 40% of the scouts were from Gujarat State and 20% of these were from Ahmedabad. The percentage of scouts in the camp from Ahmedabad is:
    (a) 25   (b) 32.5
    (c) 8   (d) 50
    Ans: (c)

21. The interest on Rs.30000 for 3 years at the rate of 15% per annum is
    (a) Rs.4500   (b) Rs.9000
    (c) Rs.18000   (d) Rs.13500
    Ans: (d)

22. Which of the following is the measure of a right angled triangle?
    (a) 7 cm, 3 cm, 9 cm
    (b) 4.5 cm, 6 cm, 5 cm
    (c) 8 cm, 15 cm, 17 cm
    (d) 4 cm, 3.5 cm, 4 cm
    Ans: (c)

23. If each side of a rhombus is doubled, how which will its area increase?
    (a) 1.5 times   (b) 2 times
    (c) 3 times   (d) 4 times
    Ans: (d)

24. An algebraic expression containing three terms is called a
    (a) monomial   (b) binomial
    (c) trinomial   (d) all of these
    Ans: (c)

25. In standard form, the number 72105.4 is written as 7.21054×10^{n} is equal to
    (a) 2   (b) 3
    (c) 4   (d) 5
    Ans: (c)

Reasoning (25 Marks)

26. Look at this series: 14, 28, 20, 40, 32, 64,... What number should come next?
    (a) 52   (b) 56
    (c) 96   (d) 128
    Ans: (b)

27. Which word does NOT belong with the others?
    (a) cornea   (b) retina
    (c) pupil   (d) vision
    Ans: (d)

28. Arrange the words given below in a meaningful sequence.
    1. Poverty
    2. Population
    3. Death
    4. Unemployment
    5. Disease
    (a) 2, 3, 4, 5, 1
    (b) 3, 4, 2, 5, 1
    (c) 2, 4, 1, 5, 3
    (d) 1, 2, 3, 4, 5

Ans: (c)

29. If A + B means B is the brother of A; A x B means B is the husband of A; A - B means A is the mother of B and A % B means A is the father of B, which of the following relations shows that Q is the grandmother of T?
(a) Q - P + R % T
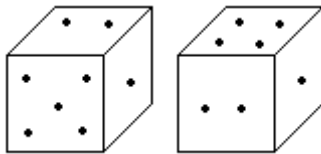(b) P x Q % R – T
(c) P x Q % R + T
(d) P + Q % R – T
Ans: (a)

30. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series: "**563, 647, 479, 815, ?**
(a) 672   (b) 386
(c) 279   (d) 143
Ans: (d)

31. Two positions of dice are shown below. How many points will appear on the opposite to the face containing 5 points?

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

32. Find out the alternative which will replace the question mark.
   "Conference : Chairman :: Newspaper : ?"
(a) Reporter
(b) Distributor
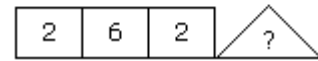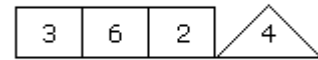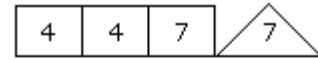(c) Printer
(d) Editor
Ans: (d)

33. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the right of P?
(a) A   (b) X
(c) S   (d) Z
Ans: (b)

34. Which one will replace the question mark ?

(a) 2   (b) 4
(c) 6   (d) 8
Ans: (c)

35. Look at this series: 544, 509, 474, 439,.... What number should come next?
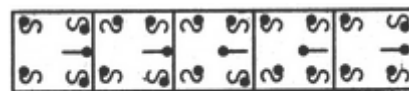(a) 404   (b) 414
(c) 420   (d) 445
Ans: (a)

36. One morning after sunrise, Vimal started to walk. During this walking he met Stephen who was coming from opposite direction. Vimal watch that the shadow of Stephen to the right of him (Vimal). To Which direction Vimal was facing?
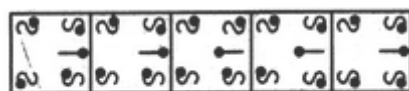(a) East   (b) West
(c) South
(d) Data inadequate
Ans: (c)

37. 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)

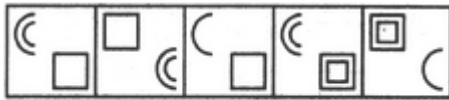(a) 1   (b) 2
(c) 3   (d) 4
(d) 5
Ans: (b)

38. Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:

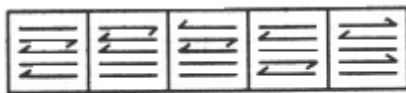(A) (B) (C) (D)

Answer Figures:

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

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

Ans: (b)

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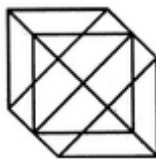

(1) (2) (3) (4) (5)

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

Ans: (e)

40. Find the number of triangles in the given figure.

(a) 18　　　　　　　　(b) 20
(c) 24　　　　　　　　(d) 27

Ans: (c)

41. Choose the alternative which is closely resembles the mirror image of the given combination.

qutubgarh

(1) puʇudǥɐɹɥ　　　(2) dnʇnpᴀɘɟʮ
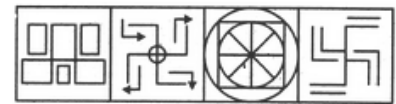(3) hragbutuq　　　(4) ɥɹɘǥduʇup

(a) 1　　　　　　　　(b) 2
(c) 3　　　　　　　　(d) 4

Ans: (d)

42. Find out the alternative figure which contains figure (X) as its part.
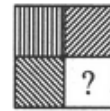

(X) (1) (2) (3) (4)

(a) 1　　　　　　　　(b) 2
(c) 3　　　　　　　　(d) 4

Ans: (c)

43. Identify the figure that completes the pattern.

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

(a) 1　　　　　　　　(b) 2
(c) 3　　　　　　　　(d) 4

Ans: (b)

44. Introducing a woman, Shashank said, "She is the mother of the only daughter of my son." How that woman is related to Shashank?
(a) Daughter
(b) Sister – in – law
(c) Wife
(d) Daughter – in – law

Ans: (d)

45. Ravi left home and cycled 10 km towards South, then turned right and cycled 5 km and then again turned right and cycled 10 km. After this he turned left and cycled 10 km. How many kilometers will he have to cycle to reach his home straight?
(a) 10 km　　　　　　(b) 15 km
(c) 20 km　　　　　　(d) 25 km

Ans: (b)

46. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series:

240, ?, 120, 40, 10, 2

(a) 180　　　　　　　(b) 240
(c) 420　　　　　　　(d) 480

Ans: (b)

47. From his house, Lokesh went 15 km to the North. Then he turned west and covered 10 km. Then he turned south and covered 5 km. Finally turning to

the east, he covered 10 km. In which direction is he from his house?

(a) East   (b) West

(c) North   (d) South

Ans: (c)

48. Which word does NOT belong with the others?

(a) Triangle   (b) Circle

(c) Oval   (d) Sphere

Ans: (a)

49. If 'blue' means 'green', 'green' means 'yellow', 'yellow' means 'orange', 'orange' means 'black', 'black' means 'white', 'white' means 'red', 'red' means 'pink', 'pink' means 'brown', 'brown' means 'grey', then what is the color of human blood?

(a) Black   (b) Red

(c) White   (d) Orange

Ans: (c)

50. B is in the East of A which is in the North of C. If P is in the South of C, then in which direction of B, is P?

(a) South – East

(b) South – West

(c) South

(d) North

Ans: (b)

English (25 Marks)

51. Choose the word or group of words which is most opposite in meaning to the word printed in bold. **"Quiescent"**

(a) indifferent   (b) weak

(c) active   (d) responsive

Ans: (c)

52. Choose the word or group of words which is most opposite in meaning to the word printed in bold. "**Belittle"**

(a) Expand   (b) Prohibit

(c) Inflate   (d) Extol

Ans: (d)

53. Choose the word or group of words which is most similar in meaning to the word printed in bold. **"Garrulity"**

(a) credulity   (b) speciousness

(c) Loquaciousness   (d) Brevity

Ans: (c)

54. Choose the word or group of words which is most similar in meaning to the word printed in bold. "Magniloquent"

(a) Amusing   (b) Humorous

(c) Intelligent   (d) Boastful

Ans: (d)

55. Choose the appropriate meaning of the idiom/phrase **"Caught between two stools"**

(a) met with an accident

(b) difficulty in choosing between two alternatives

(c) struck in a calamity

(d) none of these

Ans: (b)

56. Choose the appropriate meaning of the phrase: **"To read between the lines"**

(a) understand the hidden meaning

(b) to have good sight

(c) to learn quickly

(d) None of these

Ans: (a)

57. Choose the correct alternative which can be substituted for the below given word/ sentence. "**A person who talks in sleep** is called as"

(a) Philatelist

(b) Somnambulist

(c) Somniloquist

(d) Oneirocritic

Ans: (b)

58. Choose the correct alternative which can be substituted for the below given word/ sentence. "The person who knows everything"

(a) Omnipresent

(b) Omnipotent

(c) Omniscient

(d) Oblivious

Ans: (c)

59. Choose the best sentence: **She said to them, "Don't make a noise."**

(a) She asked them not to make a noise.

(b) She told them not make noise.

(c) She told them not to make a noise.

(d) She told them that don't make a noise

Ans: (a)

60. Choose the best sentence: **"Please don't go away" he said.**

(a) He said please him and not to go away.

(b) He told me to not to go away.

(c) He begged that I not go away.

(d) He begged me not to go away.

Ans: (d)

61. The given sentence is in active/ passive voice. Change the voice of the sentence. Select the correct option from the sentence below. **"He has a gut feeling that his brother may be keeping a secret."**

(a) He has a gut feeling that a secret may be being kept by his brother.

(b) A gut feeling is had that a secret is kept by his brother.

(c) He had a gut feeling that a secret was kept by his brother.

(d) He has a gut feeling that maybe his brother kept a secret.

Ans: (a)

62. The given sentence is in active/ passive voice. Change the voice of the sentence. Select the correct option from the sentence below. **"She has preserved all the old letters of her dead lover."**

(a) All the old letters of her dead lover have been preserved by her.

(b) All the old letters of her dead lover has been preserved by her.

(c) All the old letters have been preserved.

(d) The letters of her old lover have been preserved

Ans: (a)

63. *Author* is related to Book as *Choreographer* is related to _____?

(a) Drama   (b) Ballet

(c) Masque   (d) Opera

Ans: (b)

64. After practicing these tricky Spot the Errors multiple choice questions, **"Either Ram (1)/ or Bhuvan forgot (2)/ to take (3)/ their pen. (4)/ No error (5)"**

(a) 1   (b) 2

(c) 3   (d) 4

(e) 5

Ans: (d)

65. After practicing these tricky Spot the Errors multiple choice questions, **"Can you (1)/ repair my (2)/ digital-camera until (3)/ Wednesday? (4)/ No error (5)"**

(a) 1   (b) 2

(c) 3   (d) 4

(e) 5

Ans: (c)

66. Choose the correct spelling:

(a) Amatuer   (b) Amature

(c) Amateur   (d) Ameteur

Ans: (c)

67. Choose the correct alternative which can be substituted for the given word in the bracket to make the sentence meaningful. **"The seniors _____ (apology) for their rude behavior with juniors."**

(a) apologetic   (b) apologising

(c) apologized   (d) apologetic

Ans: (c)

68. Which word best express the meaning of "**BARBARIAN.**"

(a) Unkind   (b) Impolite

(c) Unlikeness   (d) Uncivilised

Ans: (d)

69. Give the antonym of "**MILITARY.**"

(a) Civil   (b) Militant

(c) Civility   (d) Coup

Ans: (a)

70. Fill the correct preposition from the given: **"We are engaged _____ our work."**

(a) into   (b) in

(c) at   (d) on

Ans: (a)

71. Fill the correct verb tenses: "It was found that some students _____ not attending their classes."
    (a) were   (b) was
    (c) do   (d) is

Ans: (a)

72. Fill the correct preposition from the given "She is sitting _____ the floor."
    (a) in   (b) at
    (c) on   (d) under

Ans: (c)

73. Find the most opposite meaning of "**SUBVERSION.**"
    (a) Destabilisation   (b) Clarity
    (c) Compliance   (d) Sanity

Ans: (c)

74. The nearst word of **CONNOISSEUR** bearing similar meaning is
    (a) Lover of art   (b) Ignorant
    (c) Stubborn   (d) Violent

Ans: (a)

75. Choose the correct spelling:
    (a) Benefited   (b) Benefitted
    (c) Benifitted   (d) Benifited

Ans: (b)

General Knowledge (25 Marks)

76. This is the holy book of Muslims:
    (a) Gita   (b) Ramayan
    (c) Quran   (d) Bible

Ans: (c)

77. Leader of the Namaz is:
    (a) Imam   (b) Ulemas
    (c) Patwari   (d) Wazir

Ans: (a)

78. Who was the first Mughal Emperor?
    (a) Humayun   (b) Babur
    (c) Jahangir   (d) None of these

Ans: (b)

79. Who had constructed Hauz – I – Sultani?
    (a) Sultan IItutmish
    (b) Raziyya
    (c) Qutubuddin Aybak
    (d) Ghiyasuddin Balban

Ans: (a)

80. Who rewrote the Gita in Marathi?
    (a) Saint Janeshware   (b) Chaitanya
    (c) Virashaiva   (d) Basavanna

Ans: (a)

81. Sandstone is made from grains of
    (a) Limestone   (b) Silicon
    (c) Rocks   (d) Sand

Ans: (d)

82. Mushroom rocks are found in
    (a) Deserts   (b) River valleys
    (c) Glaciers   (d) None of these

Ans: (a)

83. All weather phenomenon occurs in
    (a) Troposphere   (b) Stratosphere
    (c) Thermosphere   (d) Mesosphere

Ans: (a)

84. An important variety of temperate evergreen forest:
    (a) Rosewood   (b) Teak
    (c) Pine   (d) Neem

Ans: (c)

85. Ramabai was given the title of:
    (a) Swami   (b) Intellectual
    (c) Lady   (d) Pandita

Ans: (d)

86. Which one is animal fibre?
    (a) Cotton   (b) Silk
    (c) Polyester   (d) Jute

Ans: (b)

87. Wool fibre cannot be obtained from which of the following?
    (a) Goat   (b) Llama
    (c) Alpaca   (d) Moth

Ans: (d)

88. Which one of the following is a poor conductor of heat?
    (a) Silver   (b) Aluminium
    (c) Glass   (d) Brass

Ans: (c)

89. Which of the following is a physical change?
    (a) Rusting of iron
    (b) Combustion of magnesium ribbon
    (c) Burning of candle
    (d) Melting of wax

Ans: (d)

90. Humidity in the air is generally high in

(a) Winter   (b) Monsoon

(c) Summer   (d) All of these

Ans: (b)

91. Which one is not the part of the weather report?

(a) Humidity   (b) Temperature

(c) Rainfall   (d) Pressure

Ans: (d)

92. The atmospheric pressure is measured by

(a) Anemometer   (b) Voltmeter

(c) Barometer   (d) Thermometer

Ans: (c)

93. Which physical property of soil is important to us?

(a) Texture

(b) Water holding capacity

(c) Both

(d) None of these

Ans: (c)

94. The water holding capacity is the least in:

(a) Sandy soil   (b) Clayey soil

(c) Loamy soil

(d) Mixture of loam and sand

Ans: (a)

95. Normal range of breathing rate per minute in a normal adult at rest is:

(a) 9-12   (b) 21-25

(c) 15-18   (d) 24-30

Ans: (c)

96. Which controls blood circulation?

(a) Lungs   (b) Kidney

(c) Heart   (d) Liver

Ans: (c)

97. Coconut is dispersed by

(a) Water   (b) Animals

(c) Wind   (d) All of these

Ans: (a)

98. One millionth second is

(a) Microsecond

(b) Nanosecond

(c) Picosecond

(d) None of these

Ans: (a)

99. Who discovered magnetic effect of current?

(a) HC Oersted

(b) Michael Faraday

(c) Ohm   (d) Fleming

Ans: (a)

100. The power of lens is measured in

(a) Dioptre   (b) Watt

(c) Dyne   (d) cm

Ans: (a)