

MTSE 2020

Class-6

1. If $24+4=20$ and $31+5=26$ then $45+15=?$

- 1.60
- 2.50
- 3.30
- 4. None Of The Above

2. Select a venn diagram which best describes the relationship among “Tall men, Black haired people, Indians.”



- 1. Figure-1
- 2. Figure-2
- 3. Figure-3
- 4. Figure-4

3. If ‘printf’ and ‘scanf’ is used to display on the monitor and scan input from the user respectively. (eg. `var A; scanf(A); printf(A);` and if input is ‘HELLO WORLD’ and this input is stored in A and the ‘HELLO WORLD’ is displayed on the monitor). So if an user input

‘Hello Navprayas’ then what will be displayed on the screen of the monitor?

- 1. HELLO NAVPRAYAS
- 2. hello Navprayas
- 3. Hellonavprayas
- 4. None

4. Is it possible to make a meaningful word from the first, second, third, fifth, and eighth letters of the word “WORDLORE” using each selected letters only once, the third letter of the word would be your answer. If only two such words can be formed, your answer would be ‘N’. If more than two such words can be formed your answer would be ‘M’ and if no such word can be formed your answer would be ‘X’.

- 1. M
- 2. N
- 3. X

4.W

5. Which of the following words CANNOT be formed by using the letters of the given word CONCENTRATE

- 1.TREAT
- 2.CONCERN
- 3.TRAIN
- 4.CENTRE

6. Each line consists of three statements. Based on the first two statements, the third statement may be true, false, or uncertain.

Ram keeps his water bottle before he keeps his books

He keeps his shoes before he keeps his water bottle.

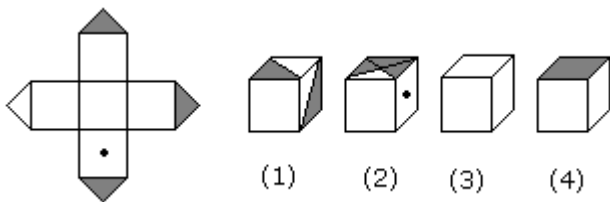
He keeps his books after he keeps his shoes.

- 1.FALSE
- 2.TRUE
- 3.Uncertain
- 4.Can't Say

7. Pointing to a photo, Shakuntala told Aarti that he is the only son of my father-in-law. What is the relationship between shakuntala and that person?

- 1.Brother - sister
- 2.Father - daughter
- 3.Husband - wife
- 4.None of the above

8. The figure given below is folded to form a box. Choose from the alternatives 1,2,3 and the boxes that is similar to the box formed.



- 1.1 and 3
- 2.2 and 3
- 3.1 and 4
- 4.2 and 1

9. Read the following information carefully and answer the question below:-

If > denotes + , < denotes - , + denotes ÷ , ^ denotes x , - denotes = , X denotes > and =

denotes <, choose the incorrect statement.

1. $7 < 7 + 7 = 6$
2. $7 \times 7 > 7 + 7 = 7 \times 7 > 1$
3. $7 > 7 < 7 + 7 = 14$
4. $7 + 7 > 7 = 8$

Direction (for Q.No. 10-11) :

A good way to figure out the relationship in a given question is to make up a sentence that describes the relationship between the first two words. Then try to use the same sentence to find out which of the answer choices completes the same relationship with the third word.

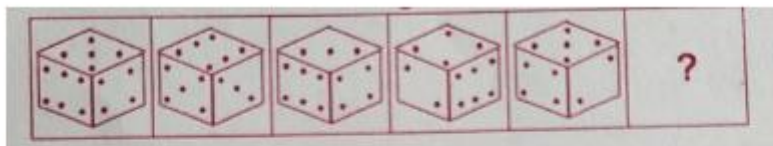
10. Chance is to probability as fraction is to

- 1. Ratio
- 2. Hint
- 3. Bit
- 4. Little

11. Area is to plane as volume is to

- 1. Cuboid
- 2. Pyramid
- 3. Space
- 4. None

12. Select a figure from amongst the options which will continue the same series as established by the five problem figures.



- 1. Figure-1
- 2. Figure-2
- 3. Figure-3
- 4. Figure-4

13. Pick up the best alternative from the option which suits the same relationship as for

COURT : JUSTICE

- 1. DOCTOR : SICKNESS
- 2. POLICE : CRIME
- 3. TEACHER : STUDY
- 4. AUDITOR : ACCURACY

14. _b_a_bab_ _bb

- 1. bbaab
- 2. baaab
- 3. baaba

4.abbba

15. Janak is older than Ujendra but younger than Somalia.Mangal is younger than Arvind but older than Rajesh.If Rajesh is older than Ujendra.Who is the oldest?

- 1.Somalia
- 2.Arvind
- 3.Mangal
- 4.Can't be determined

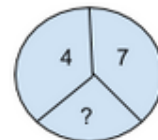
16. Dalbir is facing south.He turns 135° in the anticlockwise direction and then 180° in the clockwise direction.Which direction is he facing now?

- 1.North-east
- 2.North-west
- 3.South-east
- 4.South-west

17. At a railway station a man said to Alisha,"A train leaves for Muzaffar Nagar after every 1 hours 45 minutes.The last train has already left 50 minutes ago and the next train will leave at 5:15 pm".At what time this information was given to Alisha?

- 1.3:30
- 2.2:40
- 3.4:10
- 4.None of these

18. Guess the missing number



- 1.76
- 2.65
- 3.56
- 4.80

Direction (Qs 19-21):

On the basis of given information answer the following questions.

In a class of 60 students, 14 students have taken literature, 24 students have taken language and 2 students have both literature and language subjects.

19. Number of students enrolled in literature only, what percentage of the total students of the class

- 1.32%
- 2.24%
- 3.20%

4.48%

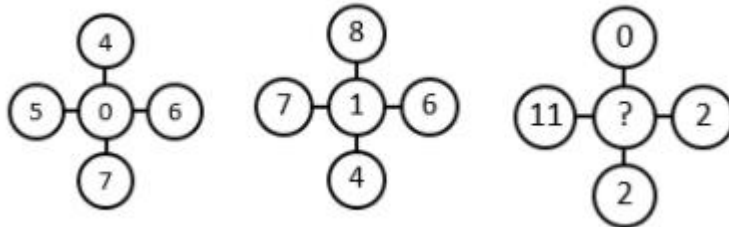
20. How many students have enrolled only for one subject?

- 1.34
- 2.40
- 3.16
- 4.8

21. How many students have neither enrolled in literature nor in language?

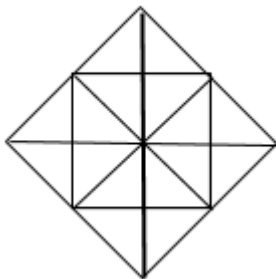
- 1.22
- 2.23
- 3.24
- 4.25

22. Replace (?) with the appropriate number.



- 1.0
- 2.2
- 3.11
- 4.12

23. How many squares are formed in a given figure?



- 1.8
- 2.10
- 3.12
- 4.14

24. Find the missing terms:- 6,11,21,36,56,___

- 1.42
- 2.51
- 3.81
- 4.91

25. How many 5's are there in the following sequence which are immediately followed by 3 but not immediately preceded by 7?

8 9 5 3 2 5 3 8 5 5 6 8 7 3 3 5 7 7 5 3 6 5 3 3 5 7 3 8

- 1.1
- 2.2
- 3.3
- 4.4

26. A lady pointing to a man in a photograph says, "The sister of the son of this man is my mother-in-law". How is the husband of the lady related to the man in the photograph?

- 1. Nephew
- 2. Maternal grandson
- 3. Son
- 4. None

27. Which number will replace the question mark?

$$\begin{array}{ccc} 6 & 9 & 4 \\ 2 \text{ (8) } 3 & 3 \text{ (12) } 6 & 7 \text{ (?) } 6 \\ 5 & 6 & 5 \end{array}$$

- 1.9
- 2.21
- 3.11
- 4.10

28. The sum of ages of five children born at the intervals of 3 years each is 50 years. What is the age of the eldest child?

- 1.13
- 2.4
- 3.6
- 4.16

Directions (Q30-Q31): On the basis of given information answer the following questions.

Five members A, B, C, D and E of a family read a religious book in a definite order

- i) First gave to D after reading the religious book.
- ii) After D, A read who was just a previous reader to E.
- iii) B is the last member to read.

30. Who were the first and last readers of the religious book?

- 1. C and A
- 2. C and B
- 3. C and E
- 4. D and B

31. What is the continuous order of readers of the religious book?

- 1. CAEBD
- 2. DCEBA

3.CDAEB

4.BDAEC

32. Find the missing number:-

8	3	4
7	6	1
2	4	?
13	5	4

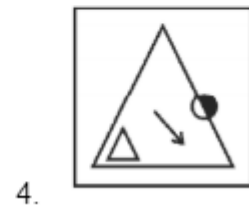
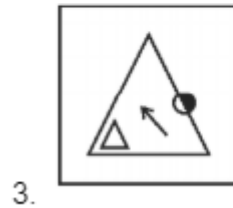
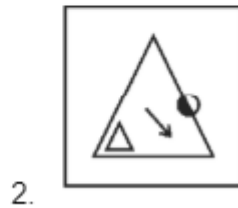
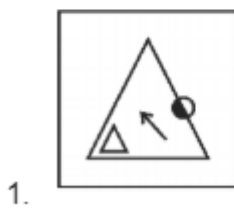
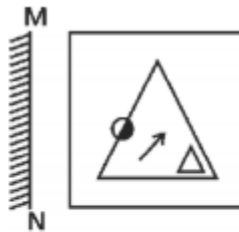
1.1

2.2

3.3

4.4

33. Find the mirror image of the given figure. The mirror is represented by the line MN.



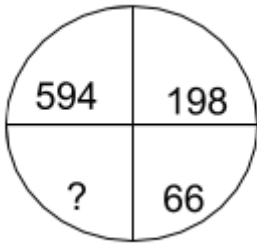
1.Figure-1

2.Figure-2

3.Figure-3

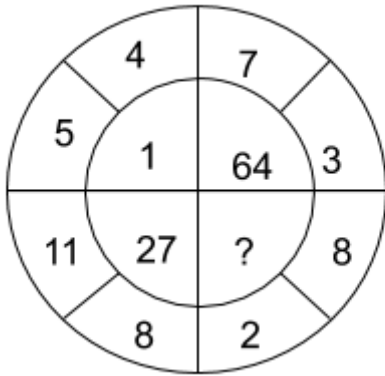
4.Figure-4

34. Find the missing number



- 1.11
- 2.12
- 3.22
- 4.33

35. Find the missing number in the given figure.



- 1.216
- 2.60
- 3.16
- 4.1728

36. Which of the following rivers do not flow into the Arabian Sea?

- 1.Indus
- 2.Godavari
- 3.Narmada
- 4.Kaveri

37. I listened to 6 songs before the one I'm listening to now, and I will listen to 6 more after this one. Altogether, that's _____

- 1.10
- 2.13
- 3.15
- 4.18

38. The Buddha gave his first sermon in:

- 1.Sarnath
- 2.Magadha
- 3.Kapilavastu
- 4.Ujjain

39. Which of the following statement(s) is/are true?

- (i) Rainwater contains dissolved gases.
- (ii) Sea water contains dissolved salts.

- 1.Both (i) and (ii) are true
- 2.Only (i) is true
- 3.Only (ii) is true
- 4.None of these

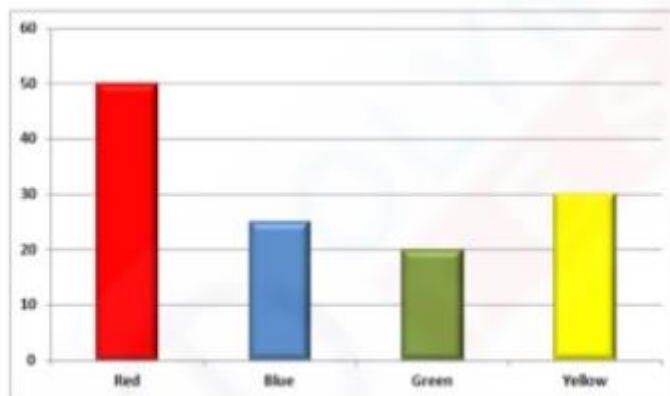
40. Change the voice of the following active voice sentence.

Is she doing homework?

- 1.Is homework done by her?
- 2.Is homework being done by her?
- 3.Was homework being done by her?
- 4.Was homework done by her?

41. This graph shows the number of balloons in Ravi's birthday party. Study graph carefully and answer the questions.

During the party, the children burst half of the red and yellow balloons. How many balloons were left after this?



- 1.15
- 2.5
- 3.70
- 4.85

42. The manager asked the visitors to wait outside _____ office.

- 1.his
- 2.their
- 3.its
- 4.None of the Above

43. Which one of the following minerals is an essential for developing strong bones and teeth?

- 1.Calcium
- 2.Iodine and calcium
- 3.Calcium and phosphorus
- 4.Magnesium and phosphorus

44. Roshan has twice as much money as Vijay. Alok has half as much money as Vijay.If Roshan had Rs 600, how much money all of them have together ?

- 1.Rs 650
- 2.Rs 860
- 3.Rs 1,050
- 4.Rs 1,750

45. Ants can find their way back to their nest because they produce a certain substance. What is the name of this substance?

- 1.Cyanide
- 2.Perfume
- 3.Pheromone
- 4.Sugar

46. A condition in which numerous distinct ethnic, religious or cultural groups are present and tolerated within a society is known as

- 1.interdependence
- 2.diversity
- 3.secularism
- 4.pluralism

47. If various steps of water cycle are marked as below: "A" for rains, "B" for evaporation of water, "C" for water in rivers & lakes and "D" for cloud formation If we take B as the first step in water cycle then the correct arrangement of letters A, B, C and D to correctly represent the water cycle will be

- 1.B, D, A, C
- 2.B, A, C, D
- 3.B, C, D, A

4.B, D, C, A

48. Your friend walks 1.749 km in 3.3 hours. You start walking along with him but your speed is slower than his speed. You both have a common destination. It took you 5 hours to reach the destination then what will be the distance that your friend will cover in 10 hours?

- 1.5.3 km
- 2.5.5 km
- 3.3.599 km
- 4.none of these

49. Read the given statements and select the correct option.

Statement 1:The level of groundwater below the surface of Earth at a given place is known as the water table.

Statement 2:Extensive use of groundwater in cities for domestic and industrial purposes is resulting in lowering of water table.

- 1.Both statements 1 and 2 are true and statement 2 is the correct explanation of statement 1.
- 2.Both statements 1 and 2 are true but statement 2 is not the correct explanation of statement 1.
- 3.Statement 1 is true but statement 2 is false.
- 4.Both statements 1 and 2 are false.

50. .The process by which water changes to ice is

- 1.Melting
- 2.Freezing
- 3.Evaporation
- 4.Condensation

51. The sum of two numbers is 484. One of the numbers ends with a zero. If this zero is removed ,we get the second number. The numbers are.....and

.....

- 1.40,444
- 2.4,480
- 3.44,440
- 4.84,400

COMPREHENSION:(Q52-Q56)

What causes the monsoon? The monsoon, which is essentially the seasonal reversal in wind direction, causes most of the rainfall received in India and some other parts of the world. The primary cause of monsoons is the

difference between annual temperature trends over land and sea. The apparent position of the Sun with reference to the Earth oscillates from the Tropic of Cancer to the Tropic of Capricorn. Thus the low pressure region created by solar heating also changes latitude. The northeast and southeast trade winds converge in this low pressure zone, which is also known as the Intertropical Convergence Zone or ITCZ. This low pressure region sees continuous rise of moist wind from the sea surface to the upper layers of the atmosphere, where the cooling means the air can no longer hold so much moisture resulting in precipitation. The rainy seasons of East Asia, sub-Saharan Africa, Australia and the southern part of North America coincide with the shift of ITCZ towards these regions.

52. Monsoon is

- 1.a type of sea wave
- 2.a seasonal reversal in wind
- 3.very hot wind
- 4.very cold wind.

53. What is the full form of ITCZ?

- 1.Intertrance Convergence Zone
- 2.Intertropical Convergence Zone
- 3.Intertropical Capricorn Zone
- 4.Intertropical Conveyance Zone.

54. The major cause of monsoon is the

- 1.difference between annual temperature trends over land and sea
- 2.difference between day and night temperature
- 3.moisture in the atmosphere
- 4.None of these.

55. Low pressure region is created by

- 1.solar heating
- 2.lunar cooling
- 3.Moist wind
- 4.dry wind.

56. It rains when

- 1.moist wind goes down
- 2.dry wind meets moist wind
- 3.the air can no longer hold moisture resulting in precipitation
- 4.Annual temperature goes down.

57. Choose the correct option:

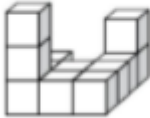
- 1.Salt and sugar are water insoluble substances.
- 2.Sand and paint are water soluble substances.
- 3.Desi ghee and salt are water soluble substances.
- 4.Paint and desi ghee are water insoluble substances

58. Which state has the largest area?

1. Maharashtra
2. Madhya Pradesh
3. Uttar Pradesh
4. Rajasthan

59. The number of cubes in the given Figure

The number of cubes in the given figure is ____.



- A 11
- B 12
- C 13
- D 14

1. 11
2. 12
3. 13
4. 14

60. Olympics games are held after every?

1. 4 years
2. 3 years
3. 5 years
4. 6 years

61. Lakshya gave Rs 24360 to his children. The eldest child received 3 times as much money as the youngest child, the second child received twice as much money as the youngest child. What was the amount of money given to the eldest child.?

1. Rs 12180
2. Rs 14280
3. Rs 22420
4. Rs 22480

62. The state NOT along the coastline of Bay of Bengal is

1. Tamil Nadu
2. Odisha
3. Kerala
4. Andhra Pradesh

63. The tap water is considered pure and fit for drinking. Pure water is tasteless but

tap water has some taste. This taste in tap water is due to

- 1.chemical treatment through which the water has to pass before its supply through taps
- 2.certain gases and salts dissolved in water that is supplied as tap water.
- 3.Both (a) and (b)
- 4.None of these

64. Which region of the world is where Judaism, Christianity, and Islam originated?

- 1.Middle East
- 2.Central America
- 3.North America
- 4.Caribbean

65. X is a number which is 465335 more than the sum of 498625454 and 2496254656 .Y is a number which is 165465 less than the sum of 564656532 and 905465325.

Find the difference between X and Y.

- 1.1525389053
- 2.1025389053
- 3.2525389053
- 4.2025389053

66. What does the pancreatic juice consist of?

- 1.Amylase
- 2.Lipase
- 3.Trypsin
- 4.All of the above

67. What is the full form of Wifi?

- 1.Wireless Fidelity
- 2.Wireless Friendly
- 3.Wireless functioning
- 4.Wireless function

68. Karl had his salary reduced by 10%. He was later promoted and his salary was increased by 10%. If his original salary was \$ 20 000, what is his present salary?

- 1.\$16 200
- 2.\$19 800
- 3.\$20 000
- 4.\$20 500

69. If the population of snakes in a farm decreases, which of the following statements is correct?

- 1.The population of paddy will increase
- 2.The population of frogs will decrease
- 3.The population of rats will increase
- 4.The population of humans will increase

70. Which of the following represents the correct chemical equation for respiration?

1. $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + ENERGY$
2. $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2 + ENERGY$
3. $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + ENERGY$
4. $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O_2 + ENERGY$

71. Parliamentary democracy is a form of government where voters elect representatives to which body?

- 1.Senate
- 2.Parliament
- 3.Cabinet
- 4.Supreme Court

72. Which of the following are compressible?

I. Steam II. Oxygen III. Nitrogen

- 1.I and II only
- 2.II and III only
- 3.I and II only
- 4.All of these

73. Arrange P,Q,R and S to form a meaningful sentence.

P: like
Q: death
R: he faced
S: a hero

- 1.PQRS
- 2.QPRS
- 3.RQPS
- 4.PRSQ

74. I don't _____ study today.

- 1.think I
- 2.think I'll
- 3.thinking
- 4.think I am

75. Our ribcage is for protecting which of the following organs:?

- (i)stomach
- (ii)spleen
- (iii)heart
- (iv)liver
- (v)lungs

- 1.Only (i) and (ii)
- 2.Only (i),(iv) and (v)
- 3.Only (ii) and (iii)
- 4.Only (iii) and (v)

76. On what factors does our type of clothing depend?

- 1.climate
- 2.occupation and daily needs
- 3.culture
- 4.All of the above

77. If boiled milk is allowed to cool for sometime and is then poured on a piece of cloth, we find that cream (malai) is left behind on cloth. This process of separating cream from milk is known as

- 1.nitration
- 2.decantation
- 3.sedimentation
- 4.churning

78. Choose the correct option :

- 1.Bread and butter is his breakfast
- 2.Bread and butter are his breakfast
- 3.Bread and butter were his breakfast
- 4.Bread and butter am his breakfast

79. What were the social classes of ancient India called?

- 1.Castes
- 2.Social Elites
- 3.Virgils
- 4.Buddha Originals

80. I have 500 pennies. If I spend 6 pennies a day until I can no longer be able to do so, on the last day when i would be able to spend 6 pennies I will have exactly _____ pennies left.

- 1.9
- 2.8
- 3.11
- 4.13

