



Sample Paper (Class – 8th)

ISE Year - 2021

Physics

- Which kind of clothes will you prefer most in summers?
 - Thin clothes with white colour
 - Thin clothes with black colour
 - Thick clothes with white colour
 - Thick clothes with black colour
- In summer, people paint their cars with silver color in order to prevent
 - Release of heat
 - Absorption of heat
 - Transfer of heat
 - Strength of heat
- Which one of the following is a reliable measure?
 - Hotness
 - Temperature
 - Energy
 - Coldness
- Wind speed of 170 Km is called
 - Typhoon
 - Hurricane
 - Heavy rain
 - Hailstorm
- A car is moving with 72 km/hrs. The speed of car in m/s is
 - 25 m/s
 - 40 m/s
 - 20 m/s
 - 30 m/s
- The rate of change in position of a body is called
 - Speed
 - Rest
 - Acceleration
 - Motion

7. It is difficult to ride a bicycle against the direction of wind because
 - (1) Air exert pressure on it
 - (2) Bicycle becomes lighter
 - (3) Wind cause reduced pressure
 - (4) Bicycle moves faster

8. An increase of one Celsius degree corresponds to increase of
 - (1) 1 Fahrenheit degree
 - (2) 1 Kelvin
 - (3) 2 Fahrenheit degree
 - (4) 2 Kelvin

9. Heat is a form of
 - (1) Temperature
 - (2) Energy
 - (3) Power
 - (4) Work

10. We feel more comfortable with dark coloured clothes during winter because
 - (1) Dark coloured clothes are very cool
 - (2) Dark coloured clothes reflect more heat
 - (3) Dark coloured clothes look good
 - (4) Dark coloured clothes absorb more heat

11. In weather report, daily temperature is measured with
 - (1) Daily thermometer
 - (2) Weather thermometer
 - (3) Maximum-minimum thermometer
 - (4) Day-night thermometer

12. A motorcycle moving with 45 km/h will cover how much distance in 2 hours
 - (1) 90 km
 - (2) 22.5 km
 - (3) 60 km
 - (4) 100 km

13. A passenger is sitting in a moving train the person is
 - (1) Neither in state of rest nor in state of Motion
 - (2) In state of motion as well as in state of rest
 - (3) In state of rest
 - (4) In state of motion

14. It takes a simple pendulum 28 s to make 16 oscillations. Calculate its time period.
- (1) 1.75 s
 - (2) 1.5 s
 - (3) 2 s
 - (4) 3.75 s
15. The word 'Monsoon' is derived from Arabic word -----.
- (1) Monsoon
 - (2) Mausim
 - (3) Moonsun
 - (4) Monoson

Chemistry

16. Cellulose : Cotton :: Protein : ?
- (1) Silk
 - (2) Nylon
 - (3) Jute
 - (4) Tricot
17. Carding machine is used to
- (1) Comb loose wool into sheet
 - (2) Wool into sweater
 - (3) Yarn into shawls
 - (4) Fibre into yarn
18. Sericulture is old occupation in
- (1) India and china
 - (2) Pakistan and Japan
 - (3) China and Myanmar
 - (4) India and Japan
19. Which of the following is a natural indicator?
- (1) Methyl orange
 - (2) Oxalic acid
 - (3) Phenolphthalein
 - (4) Turmeric
20. Tartaric acid is used in baking powder to remove
- (1) Bitterness due to calcium carbonate
 - (2) Bitterness due to calcium carbonate
 - (3) Sourness due to sodium carbonate
 - (4) Bitterness due to sodium carbonate

21. A common substance that contain acetic acid is
- (1) Turmeric
 - (2) Vinegar
 - (3) Milk
 - (4) Lemon
22. Tooth decay is caused due to
- (1) Over eating and indigestion
 - (2) Eating excess of acidic food
 - (3) Decomposition of food particle to produce base
 - (4) Decomposition of food particle to produce acid
23. Weaving is different form knitting as in weaving
- (1) Both use two sets of yarn but knit is done by machine
 - (2) Weaving is faster than knitting
 - (3) Two set of yarn is used but in knitting only one
 - (4) Weaving is done with machine knitting by hand
24. Sheep are reared by
- (1) Milkman
 - (2) Farmers
 - (3) Shepherds
 - (4) Blacksmith
25. Sheep are reared for getting_____.
- (1) Rayon
 - (2) Jute
 - (3) Wool
 - (4) Cotton
26. Which among the following is a physical change?
- (1) Burning of wood
 - (2) Cutting a log of wood in small pieces
 - (3) Cooking of food
 - (4) Ripening of fruit
27. Which of the following is a reversible change?
- (1) Burning of match stick
 - (2) Changing of milk into curd
 - (3) Melting of ice
 - (4) Germination of seed
28. Baking soda is added to vinegar solution, hissing sound is produce due to evolution of
- (1) Nitrogen dioxide gas
 - (2) Hydrogen gas
 - (3) Water vapour
 - (4) Carbon dioxide gas

29. Which of the following is an example of physical change?

- (1) Corroding
- (2) Melting
- (3) Burning
- (4) Rusting

30. Painting of iron articles prevent the rusting because

- (1) Air and water do not come in contact of Surface
- (2) Paint absorbs the moisture
- (3) Paint is a reducing agent
- (4) Paint changes oxygen into carbon dioxide

Biology

31. Leaves of some plants are not green, either red or brown due to

- (1) Absence of chlorophyll
- (2) Presence of lipids
- (3) Presence of fats
- (4) Presence of other pigments

32. Plants prepare their food by the process of

- (1) Transpiration
- (2) All of these
- (3) Photosynthesis
- (4) Respiration

33. Bile helps in digestion and absorption of fats because it contains

- (1) Pepsin
- (2) Lipase
- (3) Bile salts
- (4) Bile pigments

34. Chewing is required for

- (1) Increasing surface area of food
- (2) Enjoying the taste of food
- (3) Solubilisation of food
- (4) Decreasing surface area of food

35. Climate is the

- (1) Average rain pattern over a long period of time
- (2) Average temperature over a long period of time
- (3) Average weather pattern over a short period of time
- (4) Average weather pattern over a long period of time

36. Transportation of water and minerals in plants occurs through
- (1) Xylem
 - (2) Phloem
 - (3) Living cells
 - (4) None of these
37. Thick fat deposits below the skin is useful in polar region to
- (1) Make the body water proof
 - (2) Make them strong
 - (3) Prevent the heat loss
 - (4) Provide energy in absence of food
38. Insectivorous plants are found mostly in areas which are
- (1) Nitrogen rich
 - (2) Wet and marshy
 - (3) Dry and sandy
 - (4) Nitrogen deficient
39. Select the incorrect pair
- (1) Water - Steam
 - (2) Sunlight - Sun
 - (3) CO₂ - Atmosphere
 - (4) Chlorophyll - Leaves
40. Protein digestion is necessary because
- (1) Protein is a complex molecule
 - (2) Protein are large molecules
 - (3) Proteins have a number of amino acids.
 - (4) Protein cannot be absorbed without digestion
41. Energy is obtained by using glucose during the process of
- (1) Digestion
 - (2) Absorption
 - (3) Respiration
 - (4) Assimilation
42. Which of the following countries has not extreme cold climate?
- (1) Greenland
 - (2) Finland
 - (3) Iceland
 - (4) Indonesia
43. Which of the following countries have tropical rainforests?
- (1) Norway
 - (2) Canada
 - (3) Nigeria
 - (4) Sweden

44. In insects, air enters the body through

- (1) Spiracles
- (2) Skin
- (3) Gills
- (4) Lungs

45. Inspiration is the process of

- (1) Taking in Oxygen rich air
- (2) Releasing of CO₂ rich air
- (3) Taking in CO₂ rich air
- (4) Release of Oxygen rich air

Mathematics

46. $(-5) + (\dots\dots\dots) = (-8) + (\dots\dots\dots)$

- (1) 8, 5
- (2) -8, -5
- (3) -5, -8
- (4) 0, 0

47. Find: 2.5×0.18

- (1) 0.45
- (2) 4.5
- (3) 0.045
- (4) 45

48. Find: $7.75 \div 0.25$

- (1) 31
- (2) 34
- (3) 36
- (4) None of these

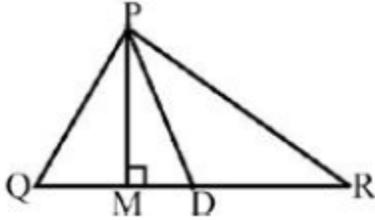
49. Out of 4 brands of chocolates in a shop, a boy has to purchase the brand which is most liked by children. What measure of central tendency would be most appropriate if the data is provided to him?

- (1) Mean
- (2) Median
- (3) Mode
- (4) None of these

50. When a die is thrown, what is the probability of getting a number greater than 3?

- (1) 1
- (2) 1
- (3) 1/2
- (4) None of these

51. In triangle PQR, PM is

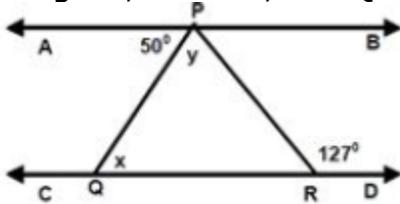


- (1) Side
- (2) Altitude
- (3) Bisector
- (4) Median

52. One of the angles of a triangle is 100° and the other two angles are equal. Find the measure of each of these equal angles.

- (1) 100°
- (2) 40°
- (3) 60°
- (4) 50°

53. In figure, $AB \parallel CD$, $\angle APQ = 50^\circ$, $\angle PRD = 127^\circ$, find the value of y .



- (1) 77°
- (2) 137°
- (3) 87°
- (4) 67°

54. Which pair of following angles are supplementary?

- (1) $50^\circ, 110^\circ$
- (2) $65^\circ, 105^\circ$
- (3) $45^\circ, 45^\circ$
- (4) $110^\circ, 70^\circ$

55. Which congruence criterion do you use in the following? Given: $ZX = RP$, $RQ = ZY$, $\angle PRQ = \angle XZY$. So, $\triangle PQR \cong \triangle XYZ$

- (1) SSS
- (2) SAS
- (3) ASA
- (4) None of these

56. $(-3) \times (-4) = \underline{\hspace{2cm}}$

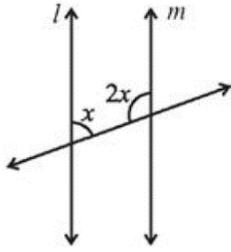
- (1) -7
- (2) 7
- (3) 12
- (4) -12

57. The temperature at 12 noon was 10°C above zero. If it decreases at the rate of 2°C per hour until midnight, at what time would the temperature be 8°C below zero?
- (1) 9:00 PM
 - (2) 9:30 PM
 - (3) 10:00 PM
 - (4) 11:00 PM
58. Find the value of a in the equation $a \div 0.065 = 0.03$
- (1) 195
 - (2) 0.195
 - (3) 0.00195
 - (4) 19500
59. There are 24 hours in a day and scientists tell us that we should sleep for $\frac{3}{8}$ of the day. How much time should we spend sleeping?
- (1) 9 hours
 - (2) 10 hours
 - (3) 8 hours
 - (4) None of these
60. Find the median of the data set, which shows the heights (in inches) of 10 students in Mr. Brajesh's class. 67, 62, 66, 63, 68, 69, 69, 69, 64 and 79
- (1) 67.5
 - (2) 69
 - (3) 72
 - (4) None of these
61. Which is the most liked subject?

Subject	Number of students
Art	7
Maths	8
Science	6
English	5

- (1) English
- (2) Art
- (3) Science
- (4) Maths

62. Find the value of x in below figure if $l \parallel m$.



- (1) 60°
- (2) 70°
- (3) 80°
- (4) 90°

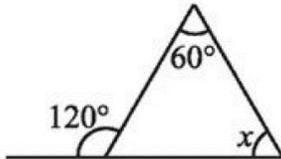
63. What is the measure of the complement of 41° ?

- (1) 15°
- (2) 135°
- (3) 49°
- (4) None of these

64. A median wholly lie in the _____ of the triangle.

- (1) Exterior
- (2) Interior
- (3) On
- (4) None of these

65. Find the value of x in given figure.



- (1) 180°
- (2) 120°
- (3) 60°
- (4) 50°

Mental Ability

66. The time on the watch is quarter to three. If the minute-hand points to North-East, in which direction does the hour hand point ?

- (1) South-West
- (2) South-East
- (3) North-West
- (4) North-East

67. A and B start walking from the same point. A goes North and covers 3 km; then turns right and covers 4 km. B goes west and covers 5 km, then turns right and covers 3 kms. How far apart are they from each other ?
- (1) 10 km
 - (2) 9 km
 - (3) 8 km
 - (4) 5 km
68. Sports is related to Logo in the same way as Nation is related to
- (1) Emblem
 - (2) Animal
 - (3) Ruler
 - (4) Anthem
69. MANTEL : NAMLET :: VANITY : ?
- (1) NAVYIT
 - (2) NAVYTI
 - (3) NAVIYI
 - (4) NAVIYI
70. ECF : FDG :: IEH : ?
- (1) OFJ
 - (2) OFI
 - (3) GHI
 - (4) LMN
71. Bucket P has thrice the capacity as bucket Q. It takes 60 turns for bucket P to fill the empty drum. How many turns will it take for both the buckets P and Q together to fill the empty drum?
- (1) 30
 - (2) 40
 - (3) 45
 - (4) 90
72. If a sum of money is divided equally among n children, each child will receive \$60. If another child is added to the group, and the sum is divided equally among all the children, each child receives a \$50 share. What is the sum of money?
- (1) \$3000
 - (2) \$300
 - (3) \$110
 - (4) \$10

73. The average age of boys and girls in a class is 10.5 years; that of the boys is 10.6 years and that of the girls is 10.1 years. If there are 60 boys in the class, how many girls are there in the class?
- (1) 15
 - (2) 20
 - (3) 22
 - (4) 25
74. A set of goods together cost Rs. 1,000. One-fourth of it was sold at a loss of 10%. At what per cent must the remainder be sold to gain 20% on the whole investment?
- (1) 30
 - (2) 35
 - (3) 50
 - (4) 52.5
75. A tank can be filled by one tap in 10 minutes and by another in 30 minutes. Both the taps are kept open for 5 minutes and then the first one is shut off. In how many minutes more is the tank completely filled?
- (1) 5
 - (2) 7.5
 - (3) 10
 - (4) 12

