



Sample Paper (Class – 7th) EYSE (AY 2021 – 2022)

Physics

1. The SI unit of length is
 - 1) Centimetre.
 - 2) Foot.
 - 3) Metre.
 - 4) Kilometre.

2. Light can pass through a
 - 1) bent hollow pipe.
 - 2) straight hollow pipe.
 - 3) circular hollow pipe.
 - 4) solid pipe

3. Among 1 mm, 1 km, 1 cm and 1 m, the greatest in magnitude is
 - 1) 1 mm.
 - 2) 1 km.
 - 3) 1 cm.
 - 4) 1 m.

4. In one hour, Sheely walks 5 kilometres and Richa walks 6 kilometres. Richa is
 - 1) slower than Sheely.
 - 2) faster than Sheely.
 - 3) same as Sheely.
 - 4) at rest.

5. Example of a non-luminous body is
 - 1) the stars.
 - 2) the earth.
 - 3) the sun.
 - 4) the firefly.

6. The two thicker wires in the bulb
 - 1) provides intersection point to the filament.
 - 2) touches each other.
 - 3) connects the filament to the cell.
 - 4) breaks the circuit of bulb

7. Regular reflection occurs from
 - (1) a smooth and polished surface.
 - (2) a surface of a rough road.
 - (3) an uneven surface.
 - (4) a wall of a room.

8. The length of a curved line is measured by using a
 - (1) Metre scale
 - (2) Ruler
 - (3) Measuring tape
 - (4) Thread

9. When the current flows in a complete circuit, the bulb
 - (1) glows
 - (2) does not glow
 - (3) flickers
 - (4) bursts

10. Penumbra is
 - (1) less darker region of a shadow.
 - (2) darker region of a shadow.
 - (3) White in colour.
 - (4) Coloured.

11. In the pin hole camera, the image of an object is
 - (1) Erect.
 - (2) Larger.
 - (3) Only circular.
 - (4) Upside down

12. Metal is a of electricity.
 - (1) Conductor
 - (2) Insulator
 - (3) Bad conductor
 - (4) Semiconductor

13. The Strength of a Magnet is
 - (1) Maximum at N pole
 - (2) Maximum at S pole
 - (3) Maximum at both poles
 - (4) Maximum at the Center

14. Electric Bell is an example of _____ Magnet.
- (1) Bar magnet
 - (2) Cylindrical magnet
 - (3) Electromagnet
 - (4) Horseshoe magnet
15. Bhavya placed a magnet near a metal ball and observes that the ball moves away. What does she conclude about the metal ball?
- (1) It is not a magnet.
 - (2) It is ebonite.
 - (3) It is a magnet.
 - (4) Its mass is very less.

Chemistry

16. Weaving is done by
- (1) Charkha.
 - (2) Loom.
 - (3) Takli.
 - (4) Needles.
17. Object that shines is
- (1) Cardboard box.
 - (2) Silver spoon.
 - (3) Cotton shirt.
 - (4) Wooden chair.
18. A change which occurs after irregular interval of time is called a
- (1) Slow change
 - (2) Fast change
 - (3) Periodic change
 - (4) Non-periodic change
19. Conversion of water vapours into water on cooling is called
- (1) Evaporation
 - (2) Filtration
 - (3) Condensation
 - (4) Sedimentation
20. A material that is not translucent is
- (1) Ground glass.
 - (2) Butter paper.
 - (3) Oil paper.
 - (4) Cellophane sheet.

21. Alum is used in
- (1) Loading
 - (2) Filtration
 - (3) Evaporation
 - (4) Distillation
22. Pick the process which is not involved in water cycle.
- (1) Precipitation
 - (2) Condensation
 - (3) Respiration
 - (4) Evaporation
23. An example of natural fibre is
- (1) Polyester.
 - (2) Nylon.
 - (3) Wool.
 - (4) Acrylic.
24. The method of sieving is used to separate a mixture containing
- (1) Butter and cream.
 - (2) Flour and sugar.
 - (3) Coins of different sizes.
 - (4) Salt dissolved in water.
25. A physical change is
- (1) always reversible.
 - (2) always irreversible.
 - (3) usually reversible.
 - (4) None of these.
26. The gas which is soluble in water is
- (1) Carbon dioxide.
 - (2) Helium.
 - (3) Nitrogen.
 - (4) Hydrogen.
27. Cotton is obtained from
- (1) larva of silkworm.
 - (2) hair of sheep.
 - (3) balls of cotton flowers.
 - (4) Stem of patsan.
28. A Windmill can perform which of the following function?
- (1) Generate electricity.
 - (2) Draw air from tube well.
 - (3) Provide air to the Organisms.
 - (4) Provide food to the Organisms.

29. Long Chimneys are used in factories because
- (1) it provides passage to harmful gases
 - (2) it is just a formality for factory
 - (3) the outer space needs these gases
 - (4) it provides passage for water
30. Air helps in Reproduction of plants by
- (1) Providing minerals
 - (2) Providing water vapour
 - (3) Dispersal of Seeds
 - (4) Opening of Flowers

Biology

31. Abiotic Components are
- (1) Water and Bacteria.
 - (2) Air and Soil.
 - (3) Birds and Bees.
 - (4) Bacteria and Soil.
32. Complete the following analogy type question.
Orange: Vitamin C:: Papaya:
- (1) Vitamin A
 - (2) Vitamin B
 - (3) Vitamin D
 - (4) Vitamin K
33. In plants, chlorophyll is present in
- (1) Roots.
 - (2) Green leaves.
 - (3) Stems.
 - (4) Branches
34. An edible root is
- (1) Ginger.
 - (2) Potato.
 - (3) Carrot.
 - (4) Onion.
35. The main function of the roots in aquatic plants is
- (1) to hold the plant in place.
 - (2) to absorb nutrition.
 - (3) to prepare food.
 - (4) to store food.

36. A balanced diet consists of
- (1) all the necessary components of food in a random proportion.
 - (2) all the necessary components of food in a fixed proportion.
 - (3) milk products along with fruits in a random proportion.
 - (4) milk products along with fruits in a right proportion.
37. The thick vein in the middle of a leaf is
- (1) Midrib.
 - (2) Middle rib.
 - (3) Mid vein.
 - (4) Veinlet.
38. How do camels survive without water for many days?
- (1) They utilise big amount of water.
 - (2) They store water in their stomach.
 - (3) They do not feel thirsty.
 - (4) They excrete little amount of water.
39. Plants and animals are the
- (1) components of food.
 - (2) parts of food.
 - (3) ingredients of food.
 - (4) sources of food.
40. Which of the following is modified in a cactus plant in the form of spines to reduce the loss of water?
- (1) Leaves
 - (2) Flowers
 - (3) Buds
 - (4) Roots
41. The three major types of Muscles in the body are:
- (1) Smooth muscles, Sports muscles and Skeleton muscles
 - (2) Smooth muscles, Cardiac muscles and Skeleton muscles
 - (3) Smooth muscles, Running muscles and Face muscles
 - (4) Smooth muscles, Face muscles and Cardiac muscles
42. Vertebrae column consists of _____ bones.
- (1) 32
 - (2) 33
 - (3) 34
 - (4) 31
43. _____ is an animal with exoskeleton.
- (1) Human
 - (2) Fish
 - (3) Crab
 - (4) Bird

44. Compost is formed by which of the materials:
- (1) Vegetable and fruit peels
 - (2) Meat
 - (3) Food containing oil and salt
 - (4) All of the above
45. Why is it advised to not store hot food in polythene bags?
- (1) The food loses heat quickly.
 - (2) Polythene reacts with hot food and produces toxic compounds.
 - (3) Polythene bags are not leak proof.
 - (4) None of the above

Mathematics

46. $(-5 \times 2) - (-2 \times -1) - (-3 \times 2) \div (-0.2)$
- (1) 30
 - (2) 0.3
 - (3) -0.3
 - (4) -42
47. Find: $2.5 \times 0.18 \div 0.3$
- (1) 0.45
 - (2) 1.5
 - (3) 0.15
 - (4) 0.015
48. According to Indian System, which of the following is the correct representation of 190216536?
- (1) 190,216,536
 - (2) 1,90,21,65,36
 - (3) 19,02,16,536
 - (4) 1902,1,65,36
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) $\frac{1}{2}$
 - (3) $\frac{1}{3}$
 - (4) None of these

51. Which of the following number is the successor of the greatest 6-digit number?
- (1) 999999
 - (2) 10001
 - (3) 999996
 - (4) 1000000
52. Roman numerals for 499 is:
- (1) CDCXVIII
 - (2) CDCXIV
 - (3) CDXCIX
 - (4) CDXCVII
53. Two quantities can be Compared only if, they are in the same:
- (1) Ratios
 - (2) Units
 - (3) Proportion
 - (4) None of these
54. How many Lines of Symmetry does a Circle have?
- (1) 1
 - (2) 2
 - (3) 3
 - (4) Many
55. Which pair of following angles are supplementary?
- (1) $50^\circ, 110^\circ$
 - (2) $65^\circ, 105^\circ$
 - (3) $45^\circ, 45^\circ$
 - (4) $110^\circ, 70^\circ$
56. Which statement is True?
- (i) HCF of two consecutive numbers is 1.
 - (ii) HCF of two consecutive Odd numbers is 1.
- (1) Only (i) is True
 - (2) Only (ii) is True
 - (3) Both are True
 - (4) None of these

57. Examples of 3-Dimensional shapes:
- (1) Cube, Cuboid, Rectangle
 - (2) Cylinder, Cube, Cuboid
 - (3) Prism, Cone, Square
 - (4) None of these
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. A king had 45750 kg of wheat grains in his store house. Total consumption of wheat required by people is 5790 kg. Rest are to be consumed by soldiers. There are 111 soldiers and each soldier consumes 6 kg wheat per day. The duration for which wheat will last for the soldiers is?
- (1) 40 days
 - (2) 55 days
 - (3) 59 days
 - (4) 60 days
61. The Order of Rotational Symmetry of Parallelogram about the Centre is
- (1) 1
 - (2) 0
 - (3) 3
 - (4) 2
62. There are 100 Bananas in a box, then total number of bananas in terms of boxes (if number of boxes= B) will be written as:
- (1) $100B$
 - (2) $100+B$
 - (3) $100-B$
 - (4) $100/B$
63. Perimeter of the Square field is 100cm. The length of each side of the Field is
- (1) 25cm
 - (2) 20cm

- (3) 250cm
- (4) 200cm

64. $\frac{5}{2}$ is what type of Fraction?

- (1) Improper Fraction
- (2) Proper Fraction
- (3) Mixed Fraction
- (4) None of these

65. Select the Correct answer.

(i) When two distinct lines meet at a point, are known as Intersecting lines.

(ii) Collinear points lie in a line.

- (1) Only (i) is True
- (2) Only (ii) is True
- (3) Both are True
- (4) Both are False

Mental Ability

66. A circular park of 20 metre diameter has a circular path just inside the boundary of width 1 metre. The area of the path is (in sq.m) _____.

- (1) 15p
- (2) 17p
- (3) 19p
- (4) 25p

67. $40\% \text{ of } ? + 180 = 564$. What is the value of (?)?

- (1) 960
- (2) 860
- (3) 950
- (4) 850

68. When $a = 1$ and $b = -2$, then find the value of $2a^2 b + 2ab^2 + 3ab$.

- (1) -12
- (2) -2
- (3) -4
- (4) -14

69. A triangle has _____ medians.

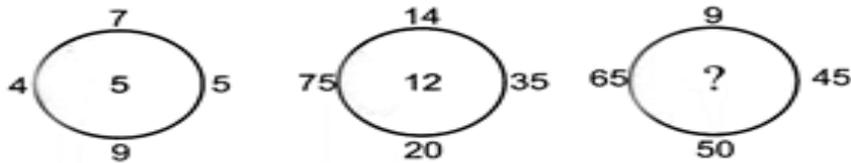
- (1) 1
- (2) 2
- (3) 3
- (4) 4

70. Identify the rule and find the missing number in place of the question mark.

21	56	70
45	87	84
115	180	?

- (1) 130
- (2) 195
- (3) 295
- (4) 150

71. Direction: Find the number which replaces the question mark.



- (1) 7
 - (2) 9
 - (3) 13
 - (4) 15
-
-

72. Which two signs are to be interchanged to make the equation below true?

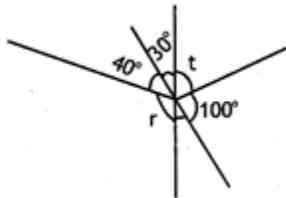
$$3 - 9 \times 27 + 9 \div 3 = 15$$

- (1) + and -
- (2) x and +
- (3) x and \div
- (4) - and \div

73. One morning after sunrise, Reeta and Kavita were looking to each other face to face at Tilak Square. If Kavita's Shadow falls exactly to the right to Reeta, in which direction Kavita was?

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

74. In the given figure, find difference between the angles t and r.



- (1) 30
- (2) 45
- (3) 60
- (4) 120

75. Two numbers differ by 8. If the smaller number is three quarters the larger, find their product.

- (1) 768
- (2) 778
- (3) 764
- (4) 678