

Paper Code:08F-SP-1

SAMPLE PAPER

Class – VIII Time: 2 Hour M. Marks: 300

General Instructions:

- 1. Answers have to be marked on the OMR sheet.
- 2. The question paper consists of 75 multiple choice questions (single correct option) divided into five sections.
 - Section A contains 15 questions (Q1 to Q15) of Physics.
 - Section B contains 15 questions (Q16 to Q30) of Chemistry.
 - Section C contains 15 questions (Q31 to Q45) of Mathematics.
 - Section D contains 15 questions (Q46 to Q60) of Mental Ability.
 - Section E contains 15 questions (Q61 to Q75) of Biology.
- 3. Each question carries +4 marks for correct answer and -1 mark for wrong answer.
- 4. The Question Paper contains blank spaces for your rough work. No additional sheets will be provided for rough work.
- 5. Blank papers, clip boards, log tables, slide rule, calculator, cellular phones, pagers and electronic devices, in any form, are not allowed.
- 6. Write your Name, Father Name, Class, and Date in the space provided at the bottom of this sheet.

NAME:	
FATHER NAME:	
CLASS:	
DATE:	



PHYSICS

- A sound wave travels from east to 1. west, in which direction do the particles of air move:
 - (A) East-west
 - (B) North-south
 - (C) Up and down
 - (D) None of these
- 2. The quantity on which loudness of sound depends is:
 - (A) Intensity
 - (B) Distance
 - (C) Time
 - (D) Velocity
- 3. Sound waves in air are:
 - (A) Longitudinal waves
 - (B) Radio waves
 - (C) Transverse waves
 - (D) Electromagnetic waves
- 4. The sound propagates in a gaseous medium by:
 - (A) Transverse waves
 - (B) Longitudinal waves
 - (C) Both A and B
 - (D) Neither A nor B
- 5. Which of the following is the actionat-distance force?
 - (A) muscular force
 - (B) frictional force
 - (C) magnetic force
 - (D)mechanical force
- 6. Earth always pulls everything towards it due to
 - (A) muscular force
 - (B) mechanical force

 - (C) gravitational force
 - (D) electrostatic force

- 7. The force responsible for the wearing out of the car tyres is -
 - (A) Frictional force
 - (B)Gravitational force
 - (C) Magnetic force
 - (D) Muscular force
- 8. The SI unit of pressure is
 - (A) atmosphere
 - (B) pascal
 - (C) cm of mercury
 - (D) mm of mercury
- 9. At high altitudes the air pressure is than at sea level
 - (A) less
 - (B) more
 - (C) same
 - (D) can't say
- 10. The instrument used to measure the pressure is
 - (A) Hydrometer
 - (B) Manometer
 - (C) Galvanometer
 - (D) Anemometer
- 11. At sea level, atmospheric pressure is about
 - (A) 10^3 Pa
 - (B) 10^4 Pa
 - (C) 10^5 Pa
 - (D) none of these
- 12. The use of lubricants makes the surface
 - (A) smooth
 - (B) rough
 - (C) very rough
 - (D) no effect



13. Which of the statement is correct 19. The process of obtaining wool is: about rolling and sliding friction? (A) shearing, sorting, scouring and (A) Rolling friction is greater than dveing sliding friction (B) shearing, scouring, sorting and (B) Rolling friction is lesser than dyeing sliding friction (C) scouring, sorting, shearing and (C) Rolling and sliding frictions acting dyeing on a body are equal (D) sorting, scouring, shearing and (D) None of these dyeing 14. Lubrication of moving surfaces 20. Which of the following is used in (A) removes friction automobile battery casings? (B) reduces friction (A) HDPE (C) increases friction (B) PP (D) has no effect on friction (C) PVC (D) Polystyrene Which of the following is the least? 15. (A) static friction 21. This is known as artificial silk: (B) sliding friction (A) nvlon (C) rolling friction (B) polythene (D) limiting friction (C) rayon (D) plastic **CHEMISTRY** 22. I am the source of synthetic Wool is obtained from of sheep 16. polymers. I am a mixture of a (A) Skin number of carbon compounds which (B) Toes can be separated by fractional (C) Fleece distillation. I am (D) All of the above (A) Petrol 17. The process of taking out threads (B) Diesel from the cocoon is known as: (C) Petroleum (A) rearing (D) Both (A) and (C) (B) sorting (C) scouring 23. Gold is used in-(D) reeling (A) Thermometers (B) Fuel Which of the following is made from 18. (C) Jewellery coconut fibres? (D) Machinery. (A) Sweaters (B) Shoes (C) Mattresses

Space for rough work

(D) Sarees



- 24. Which metal is found in liquid state at room temperature?
 - (A) Fe
 - (B) Zn
 - (C) Hg
 - (D) A1
- 25. Which material show shiny appearance?
 - (A) Coal
 - (B) Sulphur
 - (C) Aluminium
 - (D) Carbon
- 26. The metals that produce ringing sounds, are said to be-
 - (A) malleable
 - (B) sonorous
 - (C) Lustrous
 - (D) hard
- 27. The solution of ash of magnesium ribbon is-
 - (A) Acidic
 - (B) Basic
 - (C) Neutral
 - (D) All of these
- 28. What is the product when sulphur reacts with oxygen?
 - (A) Sulphuric acid
 - (B) Sulphur trioxide
 - (C) Sulphurous acid
 - (D) Sulphur dioxide
- 29. When sulphur dioxide is dissolve in water then-
 - (A) Sulphur is formed
 - (B) Sulphur trioxide is formed
 - (C) Sulphuric acid is formed
 - (D) Sulphurous acid is formed

- 30. What is the chemical formula of sulphurous acid-
 - (A) H_2SO_4
 - (B) SO₂
 - (C) SO₃
 - (D) H_2SO_3

MATHEMATICS

- 31. Every integer is anumber.
 - (A) whole
 - (B) natural
 - (C) rational
 - (D) positive
- 32. Sum of two rational number is
 - (A) rational
 - (B) irrational
 - (C) natural number
 - (D) integer
- 33. Evaluate $(105)^2 (104)^2$
 - (A) 200
 - (B) 209
 - (C) 210
 - (D) 211
- 34. Find the smallest number by which 252 must be multiplied to get a perfect square. Also find the square root of the perfect square obtained
 - (A) 7, 42
 - (B) 42, 7
 - (C) 7, 15
 - (D) 15, 7



- 35. A general arranges his soldiers in rows to form a perfect square. He finds that in doing so, 60 soldiers are left out; of the total numbers of soldiers be 8160, find the numbers of soldiers in each row.
 - (A) 70
 - (B) 80
 - (C) 90
 - (D) 100
- 36. What is least number of which 13720 must be divided so that the quotient is a perfect cube?
 - (A) 5
 - (B) 25
 - (C) 7
 - (D) 2
- 37. Find the smallest number by which 1323 must be multiplied so that the product is a perfect cube.
 - (A) 6
 - (B) 7
 - (C) 8
 - (D) 9
- 38. Evaluate $\sqrt[3]{1000} + \sqrt[3]{0.008} \sqrt[3]{0.125}$
 - (A) 9.7
 - (B) 1
 - (C) 2
 - (D) 2.5
- 39. Solve the equation:

$$\frac{5x}{3} - \frac{(x-1)}{4} = \frac{(x-3)}{5}$$

- (A) 17
- (B) $-\frac{13}{14}$

- (C) $-\frac{51}{73}$
- (D) 6
- 40. Solve the equation : $\frac{0.5z + 4}{1.2z + 6} = \frac{5}{3}$
 - (A) z = -4
 - (B) z = 4
 - (C) z = 5
 - (D) z = -6
- 41. The length of a rectangle is 16 cm and each of its diagonal measures 20 cm. The breadth is:
 - (A) 9 cm
 - (B) 10 cm
 - (C) 12 cm
 - (D) 14 cm
- 42. The length and breadth of a rectangle are in the ratio 4:3. If the diagonal measures 25 cm then the perimeter of the rectangles is
 - (A) 56 cm
 - (B) 60 cm
 - (C) 70 cm
 - (D) 80 cm
- 43. Which of the following is not a polynomial?

(A)
$$\frac{6}{5}x^4 + \frac{3}{2}x^3 + 5x^2 + x + 1$$

- (B) $5x^4 + 3x^3 + \frac{2}{x^2} + x 2$
- (C) $\sqrt{3}x^3 + x + \sqrt{5}$
- (D) 1



- 44. If a linear polynomial is multiplied with cubic polynomial, then the obtained polynomial is a
 - (A) Linear polynomial
 - (B) Quadratic polynomial
 - (C) Cubic polynomial
 - (D) Biquadratic polynomial
- 45. Solve the equation:

$$\frac{x}{2} + \frac{x}{3} + \frac{x}{4} = 13$$

- (A) 7
- (B) 12
- (C) 9
- (D) 11

Mental Ability

- 46. I went 15 m to the North, then turned West and covered 10 m, then turned South, and covered, 5 m then turned East and covered 10 m. In which direction am I now from my house?
 - (A) North
 - (B) South
 - (C) East
 - (D) West
- 47. Shyam went 70 metre in the East before turning to his right. He went 10 metre before turning to his right again and went 10 metre from this point. From here he went 90 mete to the North. How far was he from the starting point?
 - (A) 80 metre
 - (B) 100 metre
 - (C) 140 metre
 - (D) 260 metre

- 48. Arun said, "this girl is the wife of the grandson of my mother." Who is arun to the girl?
 - (A) Father
 - (B) Grandfather.
 - (C) Husband
 - (D) Father-in-law
- 49. Pointing to a man Asha said, "His brother's father is the only son of my grand father". How Asha is related to the man.
 - (A) Mother
 - (B) Aunt
 - (C) Sister
 - (D) Daughter
- 50. Find the day of the week on 26 January, 1950
 - (A) Tuesday
 - (B) Friday
 - (C) Wednesday
 - (D) Thursday
- 51. If on 14th day after 5th March be Wednesday, what day of the week will fall on 10th Dec. of the same year?
 - (A) Friday
 - (B) Wednesday
 - (C) Thursday
 - (D) Tuesday
- **Directions:** (52 to 53) A, B, C and Dare to be seated in a row. But C and D cannot be together. Also B cannot be at the third place.
- 52. Which of the following must be false?
 - (A) A is at the first place
 - (B) A is at the second place
 - (C) A is at third place
 - (D) A is at the fourth place



- 53. If A is not at the third place, then C has which of the following option?
 - (A) The first place only
 - (B) The third place only
 - (C) The first or third place only
 - (D) Any of the places
- 54. 2, 3, 5, 7, ?
 - (A) 9
 - (B) 10
 - (C) 11
 - (D) 14
- 55. 210, 120, ?, 24, 6, 0
 - (A) 64
 - (B) 48
 - (C) 35
 - (D) 60
- 56. Find the missing term in the given figure

17	11	19
12	13	16
25	4	5

- (A) 36
- (B) 9
- (C) 25
- (D) 64
- 57. Find the missing term in the given figure

- (A) 18
- (B) 12
- (C) 9
- (D) 6
- 58. X, U, S, P, N, K, I, ? (A) J

- (B) K
- (C) M
- (D) F
- 59. X, A, D, G, J, ?
 - (A) N
 - (B) O
 - (C) M
 - (D) P
- 60. If 'P' means '+' , 'R' means 'x' , S' means '–' T' means '÷' then what is the value of

$$5 R 9 P 7 S 9 T 3 P 6 = ?$$

- (A) 54
- (B) 128
- (C) 59
- (D) 55

BIOLOGY

- 61. The process of separating grains from the chaff is known as -
 - (A) Threshing
 - (B) Winnowing
 - (C) Harvesting
 - (D) Weeding
- 62. Which one of the following is a weed?
 - (A) Wheat
 - (B) Chenopodium
 - (C) Maize
 - (D) Rice
- 63. Rahat and Dhekli are the -
 - (A) Names of two persons
 - (B) Names of two villages
 - (C) Traditional methods of irrigation
 - (D) None of these
- 64. Transfer of seedings from nursery to the main field is -
 - (A) Transplantation
 - (B) Sowing
 - (C)Weeding
 - (D) None



- 65. Small pox is caused by
 - (A) Virus
 - (B) Bacteria
 - (C) Housefly
 - (D) Mosquito
- 66. The smallest organisms which cause disease among plants are -
 - (A) Viruses
 - (B) fungi
 - (C) Bacteria
 - (D) Mycoplasma
- 67. Which of the following disease is caused by a fungs -
 - (A) Small pox
 - (B) Tuberculosis
 - (C) Cancer
 - (D) Aspergillosis
- 68. *Amoeba*, *Euglena*, *Giradia* all are examples of -
 - (A) Protozoa
 - (B) Viruses
 - (C) Algae
 - (D) Fungi
- 69. The Red Data Book gives an account of-
 - (A) Endangered plants
 - (B) Extinct animals
 - (C) Endangered plants and animals
 - (D) None
- 70. All the plants found in a particular area are termed as -
 - (A) Flora
 - (B) Fauna
 - (C) Trees
 - (D) Garden

- 71. Dechigam sanctuary is located in
 - (A) W. B.
 - (B) M.P.
 - (C) J. & K.
 - (D) Rajasthan
- 72. According to IUCN red list. What is the status of red panda (Ailurus fulgens)
 - (A) Extinct species
 - (B) Vulnerable species
 - (C) Endangered species
 - (D) Critically endangered species
- 73. Striking difference between a plant cell and an animal cell is due to the presence of -
 - (A) Centrosome
 - (B) Plasma membrane
 - (C) Cell wall
 - (D) Chloroplast
- 74. All are membrane bounded cell organelles except -
 - (A) Mitochondria
 - (B) Spherosomes
 - (C) Ribosomes
 - (D) Lysosomes
- 75. Organisms lacking a nucleus and membrane-bound organe celles are called:
 - (A) Diploid
 - (B) Haploid
 - (C) Prokaryotes
 - (D) Eukaryotes