FOUNDATION MOCK TEST

| 25FTP/P | *PHYSICS+CHEMISTRY+BIOLOGY+MATHS* | **Class IX(VIII Studying)** |

PHYSICS

1. Band of seven colours is called

    A) VIB GYOR   B) Spectrum   C) Dispersion   D) Reflection

2. In the case of reflection of light, the angle of incidence (i) and the angle of reflection (r) are related as,

    A) i = r   B) i<r   C) i>r   D) No definite relation

3. What is the angle of incidence of a ray if the reflected ray is at an angle of 90^0 to the incident ray?

    A) 60^0 B) 45^0 C) 90^0 D) 180^0

4. Which of the following is not a luminous object?

    A) Sun   B) Candle   C) Moon   D) Tube light

5. Rainbow is a natural phenomenon showing

    A) Reflection   B) Deflection   C) Dispersion   D) Diversion

6. Velocity is defined as .... per time?

    A) Distance   B) Displacement   C) Power   D) Acceleration

7. A body moving in a straight line has a uniform motion, if it travels..................... distance in equal interval of time

    A) Equal   B) Unequal   C) Zero   D) Constant

8. What does the slope of a velocity time graph give?

    A) Speed   B) Velocity   C) Acceleration   D) Displacement

9. Friction is a/an ....

    A) Evil and foe   B) Evil   C) Foe   D) No definition

10. Lubricants...............................

    A) Reduce friction   B) Increase friction   C) Both A and B   D) Make stable

11. Complete the sentence. Friction always........................

    A) Opposes the motion   B) Helps the motion

    C) Helps the motion and opposes the motion   D) Constant

12. Which of the following is a scalar quantity?

    A) Force   B) Pressure   C) Velocity   D) Acceleration

13. The force of gravity acting on an object is also known as:

A) Weight   B) Mass   C) Inertia   D) Tension

14. The force exerted by a liquid on an object immersed in it is called:

A) Tension   B) Friction   C) Buoyant force   D) Normal force

15. Heat energy is measured in:

A) Kelvin   B) Walts   C) Kilograms   D) Joules

16. The temperature of 20^0C is equivalent to :

A) 293 k   B) 20 k   C) 80 k   D) 120 k

17. The temperature of a pure melting ice is :

A) 373 K   B) 273 K   C) 100 K   D) 0 K

18. Tap water is a good conductor of electricity while distilled water is not because,

A) Tap water contains salt   B) Distilled water do not contain salt

C) Only a is correct   D) Both a and b is correct

19. Electroplating prevenet

A) Corrosion   B) Passing of current   C) Dissociation   D) Shining

20. Which of the following is not used for electroplating metal articles?

A) Nickel   B) Silver   C) Chromium   D) Sodium

21. A bus travels 54 km in 90 minites. The speed of the bus is :

A) 0.6 m/s   B) 10 m/s   C) 5.4 m/s   D) 3.6 m/s

22. If the speed of an object along a straight line keeps changing its motion is said to be:

A) Uniform motion   B) Non-uniform motion

C) Linear motion   D) Circular motion

23. Which of the following relations is correct?

A) $S = D \times T$ B) $S = D/T$ C) $S = T/D$ D) $S = \dfrac{1}{D \times T}$

24. A pendulum takes 0.5 s to make one oscillation about its mean position. How long will it take to make 5 oscillation?

A) 5 sec   B) 7.5 sec   C) 2.5 sec   D) 10 sec

25. A device used to measure the distance moved by a vehicle

A) Odometer   B) Speedometer   C) Both A and B   D) Animo meter.

CHEMISTRY

26. Which is the hottest part in the flame of the candle?

   A) Blue   B) Yellow   C) Black   D) Wax part

27. CO_2 is given off by chemicals like

   A) Calcium sulphate   B) Sodium sulphate

   C) Sodium bicarbonate   D) Sulphuric acid

28. Least polluting fuel for vehicle is

   A) Coke   B) Petrol   C) Dise 1   D) CNG

29. Petroleum is formed from

   A) Domestic animals   B) Organisms in sea

   C) Wild animals   D) Insects

30. What is the fourth state of matter?

   A) Bose - Einstein condensate   B) Fermionic condensate

   C) Plasma   D) Gas

31. When a solid substance change into liquid state what happens to the energy of particles?

   A) Energy increases   B) Energy decreases

   C) Energy constant   D) First increases then decreases

32. When a liquid substance change into gaseous state what happens to attraction between particles?

   A) Attraction decreases   B) Attraction increases

   C) No change in attraction   D) First attraction decreases and then constant.

33. .... is the spontaneous mixing of different particles having freedom of movement.

   A) Osmosis   B) Diffusion   C) Fractional distillation   D) Chromatography

34. A separation method is named as chromatography, what is the basis of this name?

   A) First employed to separate oils   B) First employed to separate acids

   C) First employed to separate colours   D) First employed to separate smells

35. Which scientist discovered that when electricity is passed through water it splits into hydrogen and oxygen

   A) Henry Cavendish   B) Ruther Ford   C) Faraday   D) Sir Humphry Davy

36. Which scientist developed the modern method of assigning symbols?

A) Berzelius   B) Humphry Davy   C) Niels Bohr   D) Ruther Ford

37. What is the symbol of sulphur?

A) SU   B) sU   C) S   D) Sr

38. What is the Latin name of potassim:

A) Natrium   B) Kalium   C) Cuprum   D) Ferrum

39. Among the following, find the diatomic molecule.

A) He   B) Ar   C) H_2 D) S_8

40. The substances taking part in a chemical reaction are called...........

A) Reactants   B) Products   C) Compounds   D) Atoms

41. What do you mean by balanced chemical equations?

A) Number of atoms are different on both sides of equation

B) Number of atoms are same on both sides of equation

C) Number of atoms more in reactant side of equation

D) Number of atoms more in product side of equation

42. For which purpose vanillin used in food material

A) Colouring agent   B) To give sour taste   C) Taste enhancer   D) For fragrance

43. What is the boiling point of water

A) 200^0C B) 50^0C C) 100^0C D) 48^0C

44. In which temperature anomalous expansion of water takes place?

A) 4^0C B) 5^0C C) 100^0C D) 1^0C

45. 0^0C is known as .... of water

A) Melting point   B) Boiling point   C) Freezing point   D) Transition point

46. Litmus is extracted from......................

A) Animals   B) Cloths   C) Herbs   D) Lichens

47. What type of clothes should we wear in summer?

A) Cotton   B) Nylon   C) Polyester   D) Linen

48. Find the odd one out

A) Coal   B) Coal tar   C) Coal gas   D) CNG

49. Dark zone of a candle flame having .... colour?

A) Blue   B) Yellow   C) Black   D) Pink

50. The process of conversion of liquid to gaseous state is called

   A) Condensation   B) Vapourisation   C) Sublimation   D) Deposition

BIOLOGY

51. Which fruits has seeds outside it?

   A) Orange   B) Mango   C) Strawberry   D) Cherry

52. Which of the following is a rabi crop?

   A) Rice   B) Mustard   C) Soyabean   D) Maize

53. Which of the following is used to preserve food grains at home?

   A) Spinach leaves   B) Curry leaves   C) Neem leaves   D) Tulsi leaves

54. Rhizobium bacteria in the root nodules of leguminous plants help in fixing

   A) Sulphur   B) Oxygen   C) Nitrogen   D) Hydrogen

55. The water absorbed by roots is also called

   A) Sap   B) Cytoplasm   C) Plasma   D) None

56. It is responsible for transportation of food in the plant

   A) Phloem   B) Xylem   C) Cambium   D) Vacuole

57. .... are a symbiotic relationship between fungi and roots of higher plants

   A) Mycorrhizae   B) Legume   C) Lichens   D) Blue green algae

58. Identify the correct biotic factor of the environment

   A) Light   B) Water   C) Animals   D) Soil

59. .... are also called primary consumers

   A) Herbivore   B) Carnivore   C) Omnivore   D) Saprotroph

60. .... animals become active only during night time

   A) Diurnal   B) Nocturnal   C) Both A and B   D) None

61. Which of the folloiwng types of microorganisms is photosynthetic?

   A) Yeast   B) Virus   C) Helminth   D) Algae

62. Spraying of oil on stagnant water controls malaria because the

   A) Oil kills malarial parasites in the mosquitoes

   B) Water becomes too dirty for mosquitoes

   C) Mosquito larvae cannot breathe

   D) All of the above

63. Which of the following rays are used in the method of cold sterilisation to kill microbes present in food?

    A) uv rays   B) x rays   C) Gamma rays   D) All of the above

64. The species which are at the verge of extinction are called

    A) Extinct species   B) Endangered species

    C) Endemic species   D) Threatened species

65. Red data look contains list of

    A) Endangered plants and animals

    B) Extinct animals only

    C) Endangered plants only

    D) Exotic animals and plants

66. Identify a threatend wild animal of India

    A) Leopard   B) Nilgiri langur   C) Sloth   D) All of the above

67. Spiracle is the respiratory organ of

    A) Cockroach   B) Birds   C) Earthworm   D) Plants

68. Tiny air sacs where gas exchange occurs in the lungs are called

    A) Alveoli   B) Inhaling   C) Balloons   D) Bronchial tubes

69. Earthworms breathe through

    A) Skin   B) Legs   C) Trachea   D) Nose

70. Lime water turns milky due to the presence of which of the following gases?

    A) Carbon dioxide   B) Carbon monoxide   C) Nitrogen   D) Oxygen

71. Muscular floor of the chest cavity is called

    A) Rib cage   B) Diaphragm   C) Trachea   D) Bronchus

72. In plants, xylem and phloem

    A) Protective tissue   B) Food storing tissue   C) Vascular tissue   D) Reproductive tissue

73. Human beings sweat to

    A) Remove nitrogenous wastes

    B) Maintain body temperature

    C) Clean the skin

    D) Make uncomfortable

74. Which one of the following transport oxygen to different parts of the body?

    A) WBC   B) Platelets   C) RBC   D) All of them

75. The excess of water absorbed plants by their roots gets evaporated through the process of

    A) Absorption   B) Elimination   C) Transpiration   D) Excretion

MATHEMATICS

76. If two lines are prarallel to the same line, then they are................... to each other

    A) Perpendicular   B) Parallel   C) Same   D) Different

77. A triangle in which all the three sides are equal called

    A) Isosceles triangle   B) Right angled triangle

    C) Obtuse angled triangle   D) Equilateral triangle

78. A triangle in which one angle is greater than 90^0 is ....

    A) Right angled triangle   B) Acute angled triangle

    C) Obtuse angled triangle   D) Equilateral triangle

79. The sum of two angles is 180^0, then the two angles are called...................... angles

    A) Supplimentary   B) Complementary   C) Adjacent   D) Right

80. Find the predecessor of −7

    A) 7   B) 8   C) −8   D) 9

81. Convert it into decimal form $\dfrac{1}{2}$

    A) 0.5   B) .05   C) .1   D) .2

82. The number which has at least three factors is called ....

    A) Prime number   B) Composite number   C) Even number   D) Odd number

83. All odd numbers are prime numbers except...............................

    A) 1   B) 2   C) 4   D) 5

84. Write 2 rupees and 50 paise as decimal

    A) Rs 2.05   B) 2   C) 2.50   D) 2.5

85. Decimal notation of one-hundredth is ....

    A) 0.01   B) 0.1   C) .2   D)None

86. Every decimal can be written as a ....

    A) Fraction   B) Ratio   C) Decimal   D) None

87. A rational number can be explained in the form

    A) $\dfrac{p}{q}$　　　　B) $\dfrac{q}{p}$　　　　C) p = q　　　　D) p+q

88. The value of $\dfrac{1}{4}+\dfrac{1}{2}$ is equal to

    A) $\dfrac{3}{4}$　　　　B) $\dfrac{3}{2}$　　　　C) $\dfrac{2}{3}$　　　　D) 1

89. The multiplicative identity of rational number is

    A) 0　　　　B) 1　　　　C) 2　　　　D) −1

90. Find the square of a number 11

    A) 111　　　　B) 112　　　　C) 121　　　　D) 81

91. Find the cube root of 27

    A) 27　　　　B) 3　　　　C) 2　　　　D) 6

92. Find the square root of 64

    A) 8　　　　B) 7　　　　C) 4　　　　D) 3

93. Find the unit digit of 121 is

    A) 2　　　　B) 1　　　　C) 3　　　　D) 4

94. Find the cube root of 343

    A) 7　　　　B) 6　　　　C) 3　　　　D) 4

95. Express 64% as a decimal

    A) 6.4　　　　B) .064　　　　C) 0.64　　　　D) 6.04

96. The degree of $x^2 - 5x + 2 = x^3$ is

    A) 3　　　　B) 2　　　　C) 1　　　　D) 0

97. If x is an even number, then the next even number is

    A) x+1　　　　B) x+2　　　　C) x+3　　　　D) x+4

98. The value of 2^2 is

    A) 2　　　　B) 6　　　　C) 3　　　　D) 4

99. The value of $2^2 \times 2^3 \times 2^4$ is equal to

    A) 2^{24}　　　　B) 2^{-5}　　　　C) 2^9　　　　D) 2^{-9}

100. The value of (3^4) is

    A) 3　　　　B) 3^{12}　　　　C) 3^7　　　　D) None of these

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PHYSICS	**CHEMISTRY**	**BIOLOGY**	**MATHEMATICS**
1. B	26. A	51. C	76. B
2. A	27. C	52. B	77. D
3. B	28. D	53. C	78. C
4. C	29. B	54. C	79. A
5. A	30. C	55. A	80. C
6. B	31. A	56. A	81. A
7. A	32. A	57. A	82. B
8. C	33. B	58. C	83. B
9. A	34. C	59. A	84. C
10. A	35. D	60. B	85. A
11. A	36. A	61. D	86. A
12. B	37. C	62. C	87. A
13. A	38. B	63. C	88. A
14. C	39. C	64. B	89. B
15. D	40. A	65. A	90. C
16. A	41. B	66. D	91. B
17. B	42. C	67. A	92. A
18. B	43. B	68. A	93. B
19. A	44. A	69. A	94. A
20. D	45. C	70. A	95. C
21. B	46. D	71. B	96. A
22. B	47. A	72. C	97. B
23. B	48. D	73. B	98. D
24. C	49. C	74. C	99. C
25. A	50. B	75. D	100. B