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**WBPS**

**Previous Year Paper**  
**(Lab Assistant) 2022**



1. Which of the following is a non-renewable energy source?

- (A) Solar  
(B) Wind  
(C) Fossil Fuels  
(D) Tidal

$$\frac{300}{100} = \frac{100}{100}$$

$$\frac{100}{100} = \frac{100}{100}$$

2. Which gas is used in carbide lamp?

- (A)  $\text{CH}_4$   
(B)  $\text{C}_2\text{H}_2$   
(C)  $\text{C}_2\text{H}_4$   
(D)  $\text{C}_4\text{H}_{10}$

$$\frac{130}{7} = \frac{26}{1}$$

$$\frac{26}{1} = \frac{26}{1}$$

3. What is the minimum Escape Velocity of a rocket to be launched from earth to space?

- (A) 2 km/s  
(B) 9.8 km/s  
(C) 11.2 km/s  
(D) 18 km/s

4. Chemical formula of green vitriol is

- (A)  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$   
(B)  $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$   
(C)  $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$   
(D)  $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$

5. Fill in the blank with suitable preposition:

He is coming \_\_\_\_\_ foot.

- (A) by  
(B) in  
(C) on  
(D) with

6. A principal becomes twice of its amount in 20 years at a certain rate of simple interest. At the same rate of simple interest, that principal becomes thrice of its amount in

- (A) 30 years  
(B) 35 years  
(C) 40 years  
(D) 45 years

$$\frac{20}{1} = \frac{20}{1}$$

$$\frac{20}{1} = \frac{20}{1}$$

7. Two trains of lengths 140m and 160m are travelling in the same direction at a speed of 35 km/h and 17 km/h respectively. The time (in seconds) taken to completely pass each other is

- (A) 60  
(B) 65  
(C) 70  
(D) 75

$$\frac{140}{35} = \frac{160}{17}$$

$$\frac{140}{35} = \frac{160}{17}$$

8. Fill in the blank:

U 32, V 29, \_\_\_\_\_, X 23, Y 20

- (A) W 17  
(B) W 26  
(C) W 28  
(D) W 27

$$\frac{16}{28} = \frac{120}{175}$$

$$\frac{16}{28} = \frac{120}{175}$$

9. The least value of

$\frac{15}{16}, \frac{19}{20}, \frac{24}{25}, \frac{34}{35}$  is

- (A)  $\frac{34}{35}$   
(B)  $\frac{15}{16}$   
(C)  $\frac{19}{20}$   
(D)  $\frac{24}{25}$

$$\frac{15}{16} = \frac{19}{20} = \frac{24}{25} = \frac{34}{35}$$

$$\frac{15}{16} = \frac{19}{20} = \frac{24}{25} = \frac{34}{35}$$

10. A man sells 25 articles for Rs. 300 and makes a profit of the cost price of 5 such articles. The percentage gain is

- (A) 16%  
(B) 18.75%  
(C) 20%

$$\frac{300}{25} = \frac{300}{25}$$

$$\frac{300}{25} = \frac{300}{25}$$



11. The working of a rocket is based on which Newton's Law of Motion?

- (A) First
- (B) Second
- (C) Third
- (D) Fourth

12. The first lady Prime Minister of a country was of

- (A) Sri Lanka
- (B) Argentina
- (C) Japan
- (D) France

80%

44/5

13. The 'Standing Buddha' of Sarnath belongs to which School of Arts?

- (A) Gandharva School of Arts
- (B) Mathura School of Arts
- (C) Amravati School of Arts
- (D) None of the above

14. Give the synonym of the following underlined word:

Unremitting

- (A) Droning
- (B) Continuous
- (C) Fleeting
- (D) Infrequent

15. Which metals are used in dental fillings?

- (A) Ag - Hg
- (B) Na - Hg
- (C) Zn - Hg
- (D) Ca - Hg

16. Which is the force that causes objects to float?

- (A) Gravity
- (B) Thrust
- (C) Buoyancy
- (D) Friction

Handwritten notes for Q16:  $\frac{mg}{\rho V} = \frac{mg}{\rho \times \frac{4}{3}\pi r^3}$ ,  $\frac{mg}{\rho V} = \frac{mg}{\rho \times \frac{4}{3}\pi r^3}$ ,  $\frac{mg}{\rho V} = \frac{mg}{\rho \times \frac{4}{3}\pi r^3}$

17. In a rectangle, the length is increased by 10% and the breadth is decreased by 10%. The percentage change in area is

- (A) 1% increase
- (B) 1% decrease
- (C) 10% increase
- (D) 10% decrease

Handwritten notes for Q17:  $\frac{110}{100} \times \frac{90}{100} = \frac{99}{100}$ ,  $\frac{110}{100} \times \frac{90}{100} = \frac{99}{100}$

18. In an examination, 60% of the examinees passed in English and 70% of the examinees passed in Mathematics but 20% of the examinees failed in both the subjects. If 2,500 examinees passed in both subjects, how many examinees appeared in the examination?

- (A) 4000
- (B) 5000
- (C) 6000
- (D) 4500

Handwritten notes for Q18:  $E \rightarrow \frac{3}{5}M$ ,  $M \rightarrow \frac{7}{10}M$

19. Formula of Epsom salt—

- (A)  $MgSO_4$
- (B)  $CuSO_4$
- (C)  $FeSO_4$
- (D)  $Na_2SO_4$

Handwritten notes for Q19:  $\frac{2M}{5}$ ,  $M - \frac{3M}{5}$

20. In a particular Assembly Constituency election only two candidates contested. 90% of the voters cast their votes in the election. The winning candidate secured 60% of the total vote polled and won by a majority of 27,000 votes. Find the number of voters in the voter list.

- (A) 1,00,000
- (B) 2,00,000
- (C) 1,20,000
- (D) 1,50,000

Please Turn Over





21. 6 litres of syrup is mixed with 144 litres of water. The per cent of syrup in that mixture is

- (A) 3%
- (B) 4%
- (C) 6%
- (D) 7%

$$\frac{6}{150} \times 100 = 4\%$$

22. Add a suitable prefix to form the opposite of the word 'perfect':

- (A) nonperfect
- (B) unperfect
- (C) disperfect
- (D) imperfect

23. In a country 80% of the population live in villages, 90% of village people are farmers and 70% of the farmers are landless. The percentage of landless population is

- (A) 50.4%
- (B) 80.6%
- (C) 60.4%
- (D) 49.6%

$$\frac{80}{100} \times \frac{90}{100} \times \frac{70}{100} = \frac{504}{1000} = 50.4\%$$

24. What is the principle behind Hydraulic Brakes used in automobiles?

- (A) Bernoulli's Theorem
- (B) Pascal's Law
- (C) Newton's Law
- (D) Archimedes' Principle

$$\frac{63}{100} \times \frac{100}{100} = 63\%$$

$$50.4$$

25. The value of  $10 - 6 \div 4 + 2$  is equal to

- (A) 1.5
- (B) 3
- (C) 9
- (D) 10.5

$$10 - \frac{6}{4} + 2 = 10 - 1.5 + 2 = 10.5$$

26. Fill in the blank with suitable word:

He entered the hall in the \_\_\_\_\_ part of the show.

- (A) latter
- (B) later
- (C) late
- (D) lately

27. Which of the following is a Vector Quantity?

- (A) Force
- (B) Temperature
- (C) Mass
- (D) Distance

28. The surface tension of a liquid decreases when its temperature is

- (A) increased
- (B) decreased
- (C) unaltered
- (D) zero

29. Chemical formula of hydrolith—

- (A) NaH
- (B) LiH
- (C)  $C_2H_4$
- (D)  $CaH_2$

30. The value of acceleration due to Gravity at the Equator will \_\_\_\_\_ when the earth stops rotating.

- (A) increase
- (B) decrease
- (C) become zero
- (D) remain same



31. Main component of rectified spirit is

- (A) methanol
- (B) ethanol
- (C) formaldehyde
- (D) carboic acid

32. What is the rotation analogue of mass in linear motion?

- (A) Torque
- (B) Moment of Inertia
- (C) Angular Momentum
- (D) Weight

33. A and B borrowed Rs. 1,250 and Rs. 1,500 respectively at the same rate of simple interest per annum for  $4\frac{1}{2}$  years. If B paid an interest of Rs. 180 more than A, then the rate of interest per annum is

- (A) 12%
- (B) 14%
- (C) 15%
- (D) 16%

34. The least perfect square number divisible by 8, 12 and 16 is

- (A) 64
- (B) 144
- (C) 288
- (D) 576

35. Fill in the blank with appropriate word:  
The Jury \_\_\_\_\_ divided in their opinion.

- (A) were
- (B) was
- (C) have been
- (D) have

36. Which type of energy stored in the spring of a watch?

- (A) Heat energy
- (B) Potential energy
- (C) Kinetic energy
- (D) Chemical energy

37. A girl was asked to multiply a number by  $\frac{7}{8}$  but she divided the number by  $\frac{7}{8}$  and got the result 15 more than the correct result. The number was

- (A) 56
- (B) 15
- (C) 8
- (D) 4

38. What is the principle of Fibre Optical Communication?

- (A) Interference
- (B) Scattering
- (C) Refraction
- (D) Total Internal Refraction

39. Total number of electrons present in 0.01 mole of water—

- (A)  $6.023 \times 10^{20}$
- (B)  $6.023 \times 10^{21}$
- (C)  $6.023 \times 10^{22}$
- (D)  $6.023 \times 10^{23}$

40. What is Young's Modulus of a perfectly rigid body?

- (A) Infinity
- (B) Zero
- (C) One
- (D) Null

Please Turn Over



$$\frac{1}{25} / \frac{1}{20} = \frac{4+2}{100} = \frac{6}{100} = \frac{3}{50}$$

41. The least number of four digits when divided by 4, 8 and 12 leaves remainders 2, 6 and 10 respectively, is

- (A) 1004  
(B) 1006  
(C) 1008  
(D) 1012

$$\begin{array}{r} 2 \overline{) 61422} \\ \underline{30711} \end{array}$$

$$\begin{array}{r} 7812 \overline{) 10000} \\ \underline{462} \quad \underline{96} \\ 46 \end{array}$$

42. Vapour density of carbondioxide—

- (A) 22  
(B) 22 g cm<sup>-3</sup>  
(C) 22 g L<sup>-1</sup>  
(D) 44

$$M = \frac{D}{2}$$

$$D = \frac{M}{2}$$

$$CO_2$$

$$6 \times 2 = 12$$

$$16 + 12 = 28$$

$$28$$

43. Biodegradable polymer is

- (A) Plastic  
(B) PVC  
(C) Proteins  
(D) Teflon

44. Sound can not travel through

- (A) water  
(B) air  
(C) vacuum  
(D) metal

45. Malachite is a mineral of

- (A) Ca  
(B) Mg  
(C) Cu  
(D) Fe

46. Ram can do a piece of work in 25 days and Shyam can do it in 20 days. They work together for 5 days and then Ram leaves. In how many days will Shyam finish the remaining work?

- (A) 10  
(B) 11  
(C) 12  
(D) 13

$$\frac{1}{25} / \frac{1}{20} = \frac{4+2}{100} = \frac{6}{100} = \frac{3}{50}$$

$$\frac{4+5}{100} = \frac{9}{100}$$

$$\frac{9}{100} \times 20 = \frac{9 \times 20}{100} = \frac{180}{100} = \frac{9}{5}$$

$$\frac{9}{5} = 1 \frac{4}{5}$$

$$\frac{20 \times 11}{21}$$

47. Curie is a unit of

- (A) Temperature  
(B) Luminous Intensity  
(C) Amount of a substance  
(D) Radioactivity

48. What is the unit of Relative Density?

- (A) Kg/m  
(B) No Unit  
(C) Kg/m<sup>2</sup>  
(D) Kg/m<sup>3</sup>

$$Kg/m^3$$

49. The price of sugar being increased by 40%, a family reduces their consumption of sugar by 25%. What per cent of the expenditure of the family on sugar will be increased or decreased?

- (A) 5% increase  
(B) 5% decrease  
(C) 6% increase  
(D) 6% decrease

$$100M$$

$$100 - \frac{40M}{5} = 80M$$

$$75 \rightarrow \frac{80M}{5} = \frac{80}{5} = 16$$

$$\frac{21}{20}$$

50. Which company shut down the global Smart Phone business?

- (A) Microsoft  
(B) LG  
(C) ASUS  
(D) Google

$$\frac{21M}{20}$$

$$75 \rightarrow 100 - \frac{21}{20} = 75$$





61. A mixture of vinegar and baking soda forms

- (A) hydrogen gas
- (B) oxygen gas
- (C) chlorine gas
- (D) carbon dioxide gas

62. If a number is decreased by 10% it becomes 54. By what per cent should it be increased to make it 72?

- (A) 20%
- (B) 22%
- (C) 24%
- (D) 25%

$$\frac{90}{10} = 9$$

$$m = 60$$

$$60 \rightarrow 12$$

$$10 \rightarrow 2$$

$$\frac{12}{2} = 6$$

63. How does the heat from the sun reach earth?

- (A) Radiation
- (B) Conduction
- (C) Induction
- (D) Convection

64. Among the following which element has highest metallic character?

- (A) Bi
- (B) Sb
- (C) As
- (D) P

65. The simplified value of

$$\frac{3}{4} \div \frac{2}{5} \text{ of } \frac{4}{5} \times \frac{2}{3} \text{ of } \frac{6}{5} \div \frac{15}{16} \text{ is}$$

- (A) 1
- (B)  $\frac{3}{2}$
- (C) 2
- (D)  $\frac{1}{2}$

$$\frac{3}{4} \div \frac{8}{25} \times \frac{4}{5} \div \frac{15}{16}$$

$$\frac{3}{4} \times \frac{25}{8} \times \frac{4}{5} \times \frac{16}{15}$$

$$\frac{3 \times 25 \times 4 \times 16}{4 \times 8 \times 5 \times 15}$$

$$\frac{3 \times 25 \times 4 \times 16}{4 \times 8 \times 5 \times 15} = 2$$

66. Which is not a property of  $H_2SO_4$ ?

- (A) Oxidizing property
- (B) Reducing property
- (C) Acidic property
- (D) Dehydration property

67. The profit earned by a shop-keeper by selling a bucket at a gain of 8% is Rs. 28 more than when he sells it at a loss of 8%. The cost price (in rupees) of the bucket is

- (A) 170
- (B) 190
- (C) 175
- (D) 165

68. The percentage change of a number when it is first decreased by 10% and then increased by 10% is

- (A) 0.1% increase
- (B) 1% decrease
- (C) 0.1% decrease
- (D) No change

$$\frac{90}{10} > \frac{10}{10}$$

$$\frac{90}{100}$$

$$\frac{91}{100}$$

69. What is to be added to 15% of 160 so that the sum be equal to 25% of 240?

- (A) 36
- (B) 30
- (C) 40
- (D) 46

70. If a principal becomes twice of its amount in 10 years, the rate of simple interest per annum is

- (A) 5%
- (B) 10%
- (C) 15%
- (D) 20%

$$\frac{200}{100} = 2$$

$$\frac{200}{100} = 2$$

$$\frac{200}{100} = 2$$



71. Which device is used for converting alternating current (AC) to direct current (DC)?

- (A) Rectifier
- (B) Transformer
- (C) Dynamo
- (D) Induction Coil

72. Which of the following waves cannot be polarized?

- (A) Sound
- (B) Radio
- (C) Light
- (D) Ultraviolet

73. Fill in the blank with suitable preposition:

We should not spend money \_\_\_\_\_ luxuries.

- (A) at
- (B) on
- (C) in
- (D) with

74. Ram's income is 25% more than that of Rahim's. What per cent is Rahim's income less than that of Ram's?

- (A) 20%
- (B) 22.5%
- (C) 24%
- (D) 25%

$$\begin{array}{r} 25 \\ \times 4 \\ \hline 100 \end{array}$$

75. 'Mitali Express', a new passenger train which was inaugurated recently, connects Dhaka with which Indian city?

- (A) Kolkata
- (B) Guwahati
- (C) New Jalpaiguri
- (D) Gangtok

76. The value of  $\frac{256 \times 256 - 144 \times 144}{112}$  is

- (A) 360
- (B) 380
- (C) 400
- (D) 420

$$\begin{array}{r} 256^2 - 144^2 \\ \hline 112 \end{array}$$

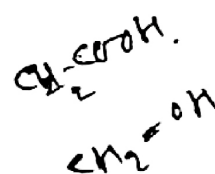
$$\begin{array}{r} 400 \times 112 \\ \hline 112 \end{array}$$

77. Which of the following used to locate Submerged Objects?

- (A) GPS
- (B) Anemometer
- (C) Sonar
- (D) Radar

78. Total no. of hydrogen atoms present in ethanol are

- (A) 2
- (B) 4
- (C) 6
- (D) 8



79. Which of the following is a measure of sound level?

- (A) Celsius
- (B) Becquerel
- (C) Coulomb
- (D) Decibel

80. Which solution does not turn blue litmus into red?

- (A) Lemon juice
- (B) Vinegar
- (C) Soap water
- (D) Rain water

Please Turn Over



81. The coating material of non-stick cookware is

- (A) PE
- (B) PP
- (C) PVC
- (D) PTFE

82. Select the pair which has the same/closest relationship:

Pork : Pig ::

- (A) Rooster : Chicken
- (B) Mutton : Sheep
- (C) Steer : Beef
- (D) Lobster : Crustacean

83. The first Asian Games were held in 1951 at

- (A) New Delhi, India
- (B) Manila, Philippines
- (C) Tokyo, Japan
- (D) Jakarta, Indonesia

84. After 20% discount, the selling price of a geometry box becomes Rs. 48. The market price of the geometry box is

- (A) Rs. 60
- (B) Rs. 75
- (C) Rs. 80
- (D) Rs. 50

$$\begin{array}{r} 48 \\ 60 - 20\% = 48 \\ 60 \times \frac{80}{100} = 48 \\ 100 - 20 = 80 \\ 60 \times \frac{80}{100} = 48 \end{array}$$

85. The alloy made from iron and carbon is

- (A) steel
- (B) bronze
- (C) brass
- (D) solder

86. The Indian Prime Minister launched the 'Swarna Jyanti' Scholarship for the youth of which country?

- (A) Sri Lanka
- (B) Bangladesh
- (C) Nepal
- (D) Myanmar

87. A water tank can be filled by one tap in 6 hours and by another in 3 hours. If both the taps are kept open then the time (in hours) taken to fill the tank is

- (A) 6
- (B) 4.5
- (C) 2
- (D) 9

$$\frac{1}{6} + \frac{1}{3} = \frac{1}{2}$$

88. Which of the following is a good conductor of electricity?

- (A) Paper
- (B) Kerosene
- (C) Graphite
- (D) Dry Air

89. An alloy contains 36% copper, 40% zinc and the rest of it is nickel. Find in grams the quantity of nickel in a sample of 1 kg. of the alloy.

- (A) 400
- (B) 360
- (C) 240
- (D) 200

90. Main component of CNG is

- (A) methane
- (B) ethane
- (C) butane
- (D) ethylene

91. What is it called when the sun is exactly over the earth's Equator?

- (A) Apsis
- (B) Ana lemma
- (C) Solstice
- (D) Equinox

92. Find out the covalent compound:

- (A) Washing soda
- (B) Alum
- (C) Chalk
- (D) Hydrogen peroxide

93. Give the appropriate antonym of the word 'Consolidate':

- (A) Achieve
- (B) Weaken
- (C) Fortify
- (D) Sacrifice

94. What is the frequency of direct current?

- (A) 50 Hz
- (B) 60 Hz
- (C) Zero
- (D) Infinity

95. The weight of 1 litre of water is 1 kg. and the weight of 1 litre of the other liquid is 1.4 kg. They are mixed in the proportion of 3 : 2 by volume. The weight of 1 litre of the mixture (in kg.) is

- (A) 1.25
- (B) 1.30
- (C) 1.16
- (D) 1.20

96. Philosopher's wool is

- (A) ZnO
- (B) CaO
- (C) MgO
- (D)  $\text{Fe}_2\text{O}_3$

97. Who was the first Indian to go to space?

- (A) Vikram Ambala
- (B) Ravish Malhotra
- (C) Rakesh Sharma
- (D) Nagapathi Bhath

98. What will be the rate of interest if the interest of Rs.800 for 4 years is equal to the interest of Rs. 600 in 8 years at the rate of 4% simple interest per annum?

- (A) 5%
- (B) 6%
- (C) 7.5%
- (D) 8%

99. In  $^{24}_{12}\text{Mg}^{2+}$  ion, no. of electrons and neutrons present

- (A) 12, 12
- (B) 10, 12
- (C) 12, 10
- (D) 10, 14

100. Full form of ICMR is

- (A) Indian Council of Medicine Recovery
- (B) Indian Council of Medical Research
- (C) International Committee of Medicine and Research
- (D) None of the above

