



# Teachingninja.in



**Latest Govt Job updates**



**Private Job updates**



**Free Mock tests available**

**Visit - [teachingninja.in](http://teachingninja.in)**



Teachingninja.in

WBSC  
Previous Year Paper  
(Lab Assistant) 2022



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

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

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)  $\text{C}_4\text{H}_{10}$

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  $\Delta$

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

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

**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

**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)  $\frac{24}{25}$

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

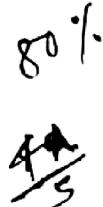
- (A) 16%
- (B) 18.75%
- (C) 20%

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



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

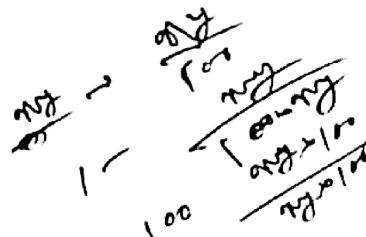
- (A) Droning
- (B) Continuous
- (C) Fleeting
- (D) Infrequent

15. Which metals are used in dental fillings?

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

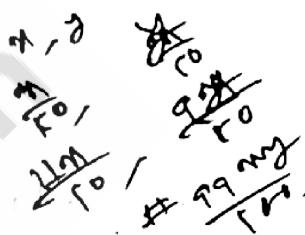
16. Which is the force that causes objects to float?

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



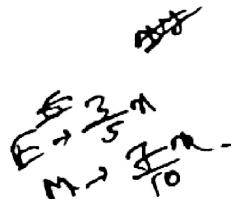
17. In a rectangle, the length is increased by 10% and the breadth is decreased by 10%. The percentage change in area is

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



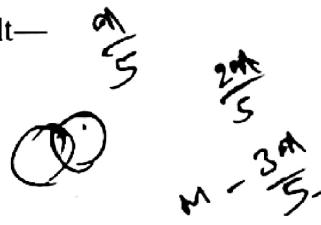
18. In an examination, 60% of the examinees passed in English and 70% of the examinees passed in Mathematics but 20% of the examinees failed in both the subjects. If 2,500 examinees passed in both subjects, how many examinees appeared in the examination?

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



19. Formula of Epsom salt—

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



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%

$$\frac{6}{150} \times 100 \approx 4$$

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%

$$\frac{4}{5}$$

$$\frac{8}{10} \times \frac{9}{10} \times \frac{7}{10} = \frac{50.4}{100}$$

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

$$\frac{63}{25} \times \frac{4}{5} = \frac{25.2}{25}$$

$$50.4$$

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

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

$$10 - \frac{6}{4} + 2$$

$$10 - 1.5 + 2 = 10 - 1.5$$

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 hydolith—

- (A) NaH
- (B) LiH
- (C) C<sub>2</sub>H<sub>4</sub>
- (D) CaH<sub>2</sub>

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
- o (B) ethanol
- (C) formaldehyde
- (D) carbolic acid

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

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

(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%

(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

$$\begin{array}{r}
 64 \\
 144 \\
 288 \\
 576 \\
 \hline
 1^2 \\
 1^2 \\
 4
 \end{array}
 \quad
 \begin{array}{r}
 4 \overline{)8, 12, 16} \\
 \cancel{8} \cancel{2} \overline{)3} \overline{4} \\
 1 \overline{)3} \overline{2} \\
 48, 96 \quad 194
 \end{array}$$

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

$$\begin{array}{r}
 \text{• } \frac{7}{8} \text{ m.} \\
 \frac{7}{8} \times 8 = 7 \text{ m.} \\
 7 \text{ m.} - 2 \text{ m.} = 5 \text{ m.} \\
 5 \text{ m.} \times 4 = 20 \text{ m.} \\
 20 \text{ m.} \times 5 = 100 \text{ m.}
 \end{array}$$

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)  $6.023 \times 10^{23}$

1  
100

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

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

us of a perfectly

**Please Turn Over**

$$\frac{1}{25} / \frac{1}{20} = \frac{4}{100} = \frac{1}{25}$$

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

6, 14, 22  
3 7 11

$$7812 \mid 1008 \quad 83$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \\ 10 \\ \hline 96 \\ 96 \\ \hline 0 \end{array}$$

10000  
10000

42. Vapour density of carbondioxide—

- (A) 22
- (B)  $22 \text{ g cm}^{-3}$
- (C)  $22 \text{ g L}^{-1}$
- (D) 44

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

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

CO<sub>2</sub>

6. 22.

$$\cancel{16} + \cancel{12} \cdot$$

28

24

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

$$\frac{1}{25} / \frac{1}{20} = \frac{4}{100} = \frac{1}{25}$$

$$\frac{4+5}{100} = \frac{9}{100} = \frac{9}{25}$$

$$\frac{1}{25} \times 5 = \frac{1}{5}$$

$$\frac{1}{20} \times 5 = \frac{1}{4}$$

$$\frac{1}{20} \times 11 = \frac{11}{20}$$

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)  $\text{Kg/m}^2$
- (D)  $\text{Kg/m}^3$

$$\text{Kg/m}^3$$

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

$$\cancel{100} \times \frac{2}{5} = \cancel{20}$$

$$\cancel{100} \rightarrow \cancel{80} \times \frac{3}{5} = \cancel{24}$$

$$75 \rightarrow \cancel{50} \times \frac{4}{5} = \cancel{40}$$

$$\frac{21}{5} = 4.2$$

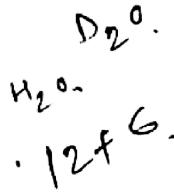
50. Which company shut down the global Smart Phone business?

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

$$\cancel{21} \times \frac{1}{20} = \cancel{1}$$

$$\cancel{100} \rightarrow \cancel{75} \times \frac{3}{5} = \cancel{45}$$

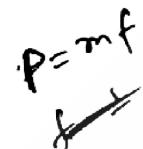
51. Molecular weight of heavy water—  
(A) 18  
(B) 20  
(C) 22  
(D) 24



52. Which compound has lowest boiling point?

- (A) methanol
- (B) ethanol
- (C) propanol
- (D) butanol

53. Acceleration is inversely proportional to  
(A) force  
(B) velocity  
(C) mass  
(D) distance



54. Fill in the blank with suitable phrasal verb:  
The firemen were able to \_\_\_\_\_ the fire.

- (A) take away
- (B) put out
- (C) get with
- (D) put off

55. Fill in the blank with suitable preposition:

He preferred coffee \_\_\_\_\_ tea.

(A) from  
(B) of  
(C) over  
(D) to

56. The trace metal present in insulin is

- (A) Na
- (B) Cu
- (C) Zn
- (D) Fe

57. In a train accident 10% of the passengers died on the spot and 5% of the rest died in hospital. If the number of survivor is 1710, the number of the passengers who were in the train is

- (A) 3300
- (B) 2700
- (C) 2240
- (D) 2000

58. What is the fourth state of matter?  
(A) Solid  
(B) Liquid  
(C) Plasma  
(D) Gas

59. Choose the one that expresses best the meaning of the underlined idiom:

I am sure they will fight tooth and nail for their rights.

- (A) with all their rights
- (B) with all their might
- (C) without any weapon
- (D) very cowardly

60. Formula of laughing gas—

- (A)  $\text{N}_2\text{O}$
- (B)  $\text{NO}$
- (C)  $\text{NO}_2$
- (D)  $\text{NH}_3$

**Please Turn Over**

61. A mixture of vinegar and baking soda forms

- hydrogen gas
- oxygen gas
- chlorine gas
- 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?

- 20%
- 22%
- 24%
- 25%

$$\begin{aligned} \text{Let } x &= 54 \\ x &= 100 \\ x &= 60 \\ 60 &+ 12 = 72 \end{aligned}$$

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

- Radiation
- Conduction
- Induction
- Convection

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

- Bi
- Sb
- As
- P

65. The simplified value of

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

- 1
- $\frac{3}{2}$
- 2
- $\frac{1}{2}$

$$\begin{aligned} \frac{3}{4} &\div \frac{8}{25} \times \frac{4}{3} \div \frac{15}{16} \\ \frac{3}{4} &\times \frac{25}{8} \times \frac{4}{3} \times \frac{16}{15} \\ &= \frac{64}{15} \end{aligned}$$

66. Which is not a property of  $\text{H}_2\text{SO}_4$ ?

- Oxidizing property
- Reducing property
- Acidic property
- 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

- 170
- 190
- 175
- 165

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

- 0.1% increase
- 1% decrease
- 0.1% decrease
- No change

$$\begin{aligned} \text{Let } x &= 100 \\ x &+ 10 = 110 \\ 110 &- 10 = 100 \end{aligned}$$

$$\begin{aligned} \text{Let } x &= 100 \\ x &- 10 = 90 \\ 90 &+ 10 = 100 \end{aligned}$$

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

- 36
- 30
- 40
- 46

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

- 5%
- 10%
- 15%
- 20%

$$\begin{aligned} \text{Let } P &= 100 \\ 2P &- P = 100 \\ 100 &= 10 \times \frac{P}{100} \\ 100 &= 10 \times 10 \\ 100 &= 100 \end{aligned}$$

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%



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

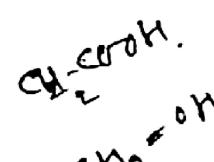
$$\begin{array}{r} 256 - 144 \\ \hline 112 \\ 400 \times 112 \\ \hline \end{array}$$

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 ::

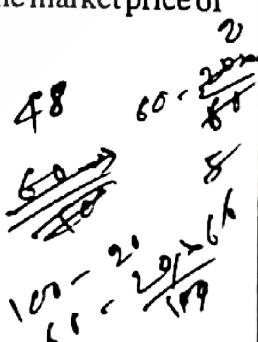
- (A) Rooster : Chicken
- (B) Mutton : Sheep
- (C) Steer : Beef
- (D) Lobster : Crustacean

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



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 Jayanti' 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

~~Y = 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)  $Fe_2O_3$

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  $^{24}_{12}Mg^{2+}$  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