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**Indian
Army Soldier
Previous Year Paper
Technical Paper Gwalior
1 Nov 2020**



50 Questions

Que. 1 'Labour Day' is celebrated on which date?

1. 01 Jan
2. 01 July
3. 01 May
4. 01 June

Que. 2 Which of the following is the first surface to surface ballistic missile of India?

1. Agni
2. Trishul
3. Prithvi
4. Akash

Que. 3 How many players are there in 'Kabbadi'?

1. 6
2. 12
3. 7
4. 8

Que. 4 Who is the author of the book 'Abhigyan Shakuntalam'?

1. Tulsidasa
2. Surdasa
3. Kalidasa
4. Raidasa

Que. 5 Which colour is not found in a Rainbow?

1. Red
2. Yellow
3. Black
4. Green

Que. 6 In a class of 42 students, Manoj's rank is 16th from the top. What is his rank from bottom?

1. 25
2. 28
3. 27
4. 26

Que. 7 From given options fill the missing number in the sequence - 130, 66, (____), 18, 10, 6.

1. 34
2. 45
3. 46
4. 37

Que. 8 From the given options complete the series - B2CD, (____), BCD4, B5CD, BC6D

1. BC3D
2. BCD7
3. B2C2D
4. B2C3D

Que. 9 If VICTORY is coded as YLFWRUB, how can SUCCESS be coded?

1. VYEFIVV
2. VXEEIVV
3. VXFFHVV
4. VYEEHVV

Que. 10 A soldier walks 4 kms in North direction from his camp. He then turns towards East and walks another 3 kms. Find out how far the soldier is from his initial location?

1. 10 kms
2. 7 kms
3. 5 kms
4. 4.5 kms

Que. 11 How many colours of light are in white light colour?

1. 1
2. 8
3. 7
4. 6

Que. 12 The value of force acting per unit area is called _____?

1. Joule
2. Force
3. Pressure
4. Energy

Que. 13 The forward movement in swimming takes place because of _____?

1. Third law of motion
2. Fourth law of motion

3. Second law of motion
4. First law of motion

Que. 14 At what temperature water has maximum density?

1. 16°C
2. 0°C
3. 8°C
4. 4°C

Que. 15 A body of mass 200g moves with the velocity of 20 m / s. The kinetic energy will be _____?

1. 30 joules
2. 50 joules
3. 40 joules
4. 20 joules

Que. 16 A wire has a resistance of 16 ohms. It is melted and drawn into a wire of half of its original length. What is the resistance of the new wire?

1. 4 ohms
2. 32 ohms
3. 16 ohms
4. 8 ohms

Que. 17 If a body of mass M has momentum P, then Kinetic Energy will be _____?

1. P^2 / m
2. $P^2 / 2m$
3. $m^2 / 2P$
4. $P / 2m$

Que. 18 The device used for converting AC to DC is called _____?

1. Semi Conductor
2. Conductor
3. Full Conductor
4. Rectifier

Que. 19 Which of the following quantities is a vector quantity?

1. Speed
2. Energy
3. Velocity
4. Power

Que. 20 What is the speed of light?

1. $3 \times 10^8 \text{ m / s}$
2. $3 \times 10^8 \text{ km / s}$
3. $3 \times 10^8 \text{ cm / s}$
4. 340 m / s

Que. 21 What will be the focal length of a concave lens whose power is -2.0 D?

1. 0.25 meter
2. 0.5 meter
3. 1 meter
4. 2 meter

Que. 22 A car, initially at rest travels 20 m in 4 sec along a straight line with constant acceleration. Find the acceleration of car?

1. 4.9 m / s^2
2. 2.5 m / s^2
3. 0.4 m / s^2
4. 1.6 m / s^2

Que. 23 What is the charge on X-rays?

1. No charge
2. Positive & Negative
3. Negative
4. Positive

Que. 24 The weight of a body at the centre of the earth is _____?

1. Zero
2. Double
3. Same weight no change
4. Infinite

Que. 25 A curved mirror has a radius of curvature 28 cm. What will be the focal length of mirror?

1. 2 cm
2. 14 cm
3. 28 cm
4. 40 cm

Que. 26 A Shopkeeper buys a fan for Rs. 1200 and spends another Rs. 16 for transportation. If he sells the fan for Rs. 1300. What is the profit percentage?

1. 8.90%
2. 6.90%
3. 6%
4. 7.90%

Que. 27 A bag contains 3 blue, 2 white and 4 red balls. If a ball is drawn at random from the box, what is the probability of getting a blue ball?

1. $\frac{2}{3}$
2. $\frac{4}{9}$
3. $\frac{1}{3}$
4. $\frac{2}{9}$

Que. 28 A father is 7 yr older than mother and mother's age now is 3 times the age of daughter. Daughter is 10 yr old now. What was the father's age when daughter was born?

1. 37 yr
2. 27 yr
3. 40 yr
4. 15 yr

Que. 29 1 kg apple costs Rs. 40. If there are 4 apples in each kg, how much will a basket of 25 apples cost?

1. 100
2. 240
3. 250
4. 245

Que. 30 Dimensions of floor of a rectangular hall are $4\text{ m} \times 3\text{ m}$. The floor is to be tiled fully with $8\text{ cm} \times 6\text{ cm}$ rectangular tiles without breaking tiles to smaller tiles. Find the number of tiles required?

1. 2500
2. 2200
3. 2400
4. 2350

Que. 31 If the sum of two numbers is 10 and the sum of their reciprocals is $\frac{5}{12}$ then what will be the numbers?

1. 7, 3
2. 9, 1
3. 8, 2
4. 6, 4

Que. 32 A polygon has 44 diagonals. Find the number of its side?

1. 12
2. 9

3. 11
4. 10

Que. 33 Find the selling price when cost price is Rs. 650 and gain is 8%?

1. 702
2. 809
3. 600
4. 642

Que. 34 If a man riding his bicycle covers 150 meters in 25 seconds then what is his speed in km / hour?

1. 25
2. 23
3. 21.6
4. 20

Que. 35 The length and breadth of a rectangular area is 25 cm and 15 cm. Find the ratio of its length to its perimeter?

1. 5 : 3
2. 2 : 5
3. 5 : 16
4. 2 : 3

Que. 36 Find the least number which when divided by 25, 40 and 60 leaves as remainder 7 in each case?

1. 609
2. 607
3. 593
4. 1207

Que. 37 The Surface Area of sphere is _____?

1. $\frac{4}{3} \pi r^4$
2. $\frac{4}{3} \pi r^3$
3. $4\pi r^3$
4. $4\pi r^2$

Que. 38 If the cost of a book worth Rs. 50 is increased by Rs. 25 more, then how much is the rate of increase?

1. 10
2. 25
3. 20
4. 50

Que. 39 Find out the HCF of 30 and 25?

1. 48
2. 05
3. 25
4. 30

Que. 40 In how many years will Rs. 2000 amount to Rs. 2420 at 10% per annum compound interest?

1. 3 years
2. 2 years
3. $5/2$ years
4. $3/2$ years

Que. 41 Gun-powder is a _____?

1. Molecule
2. Mixture
3. Element
4. Compound

Que. 42 Elements on the right side of the Periodic Table are _____?

1. Semi Metals
2. Metals
3. Transition Metals
4. Non Metals

Que. 43 What is the chemical formula of Dry Ice?

1. CO
2. H_2O
3. H_2O_2
4. CO_2

Que. 44 When zinc is put in copper sulphate solution, the colour of copper sulphate becomes?

1. Colourless
2. Yellowish
3. Greenish
4. Brownish

Que. 45 Isotopes are atoms showing same _____?

1. Mass Number
2. Atomic Number

3. Atomic Mass
4. Number of Neutrons

Que. 46 When salt is added to water its _____?

1. boiling point is not affected
2. boiling point increases
3. boiling point decreases
4. freezing point increases

Que. 47 What is the pH value of pure water?

1. 7
2. 4
3. 18
4. 12

Que. 48 Number of Neutrons in heavy hydrogen atom are _____?

1. 1
2. 2
3. 3
4. 0

Que. 49 An atom that can neither gain nor lose electrons is said to be?

1. Non Metallic
2. An inert
3. Metallic
4. Atmospheric

Que. 50 What is the chemical symbol of Gold?

1. Au
2. Ag
3. Gd
4. Fe