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# Indian Army Soldier

## Previous Year Paper

### Technical Paper Gwalior

#### 1 Nov 2020



## 50 Questions

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**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. Tulsidas
2. Surdas
3. Kalidas
4. Raidas

**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 16<sup>th</sup> 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

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**Que. 14** At what temperature water has maximum density?

1.  $16^{\circ}\text{C}$
2.  $0^{\circ}\text{C}$
3.  $8^{\circ}\text{C}$
4.  $4^{\circ}\text{C}$

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**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

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**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

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**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.  $P / 2m$

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**Que. 18** The device used for converting AC to DC is called \_\_\_\_\_?

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

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**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.  $3 \times 10^8$  m / s
2.  $3 \times 10^8$  km / s
3.  $3 \times 10^8$  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.  $4.9 \text{ m/s}^2$
2.  $2.5 \text{ m/s}^2$
3.  $0.4 \text{ m/s}^2$
4.  $1.6 \text{ m/s}^2$

**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.  $2/3$
2.  $4/9$
3.  $1/3$
4.  $2/9$

**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  $5/12$  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

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- 3. 11
- 4. 10

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

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

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**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

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**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

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**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

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**Que. 37** The Surface Area of sphere is \_\_\_\_\_?

- 1.  $4 / 3 \pi r^4$
- 2.  $4 / 3 \pi r^3$
- 3.  $4\pi r^3$
- 4.  $4\pi r^2$

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**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

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**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

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

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

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**Que. 48** Number of Neutrons in heavy hydrogen atom are \_\_\_\_\_?

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

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**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

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**Que. 50** What is the chemical symbol of Gold?

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