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# **Soldier Technical Paper**

**Previous Year Paper  
[Lansdowne]  
28 Feb 2021**



## 50 Questions

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**Que. 1** What is the provision in Article 356 of Indian Constitution?

1. For jobs in reservation of backward classes
2. To impose President's rule in the states
3. For the protection of religious monument
4. To give special status to Jammu and kashmir

**Que. 2** Where is Shah Jahan's tomb located?

1. Delhi
2. Sikan
3. Agra
4. Fatehpur

**Que. 3** Which of the following organizations has been specifically formed to promote overall rural development in India?

1. SIDBI
2. RBI
3. SEBI
4. NABARD

**Que. 4** Where is the Pir Panjal Range located?

1. Arunachal Pradesh
2. Jammu and Kashmir
3. Himachal Pradesh
4. None of these

**Que. 5** What is the term of the Governor's tenure?

1. 4 years
2. 5 years
3. 3 years
4. 6 years

**Que. 6** What will be the next number in 58, 52, 46, 40, 34?

1. 26
2. 28
3. 32
4. 30

**Que. 7** If writing 5 # 32 @ to BUILT and TRIBE to © 935! What do we write to RULE?

1. 92 # 5
2. © # 2 !

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- 3. ! # 2 ©
- 4. 9 # 2 !

**Que. 8** Which is the word that does not match the words given below?

- 1. 30, 40
- 2. 50, 60
- 3. 10, 20
- 4. 40, 50

**Que. 9** Complete the sequence from the given options:  $B_2 CD$ , (\_\_\_\_\_),  $BCD_4$ ,  $B_5 CD$ ,  $BC_6 D$

- 1.  $B_2 C_3 D$
- 2.  $B_2 C_2 D$
- 3.  $BCD_7$
- 4.  $BC_3 D$

**Que. 10** In a sign language 'CAT' is written as DDY, then what will be written as BIG?

- 1. CNL
- 2. CJL
- 3. CML
- 4. CLL

**Que. 11** An object is dropped from a certain distance. When she is at half distance, she is \_\_\_\_\_ in it?

- 1. Both kinetic and potential energy
- 2. kinetic energy only
- 3. only potential energy
- 4. Zero energy

**Que. 12** When the temperature increases, the surface tension of a material \_\_\_\_\_?

- 1. Nothing will be affected
- 2. increases
- 3. decreases
- 4. spreads

**Que. 13** The part of the eye that presents the reflection of an object is called \_\_\_\_\_?

- 1. cornea
- 2. pupil
- 3. Iris
- 4. Retina

**Que. 14** The temperature of a patient is  $40^\circ C$ . His temperature will be \_\_\_\_\_ in Fahrenheit?

- 1.  $100^\circ C$
- 2.  $104^\circ F$

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- 3.  $96^{\circ}\text{ F}$
- 4.  $72^{\circ}\text{ F}$

**Que. 15** How can the boiling point of a liquid be increased?

- 1. Pressure reduced
- 2. Raising the temperature
- 3. By decreasing temperature
- 4. By increasing pressure

**Que. 16** The melting point of the fuse wire (wire) should be \_\_\_\_?

- 1. Moderate
- 2. Low
- 3. High
- 4. Infinite

**Que. 17** What is the equation of force, mass and acceleration \_\_\_\_?

- 1.  $ma = F$
- 2.  $ma = 1 / F$
- 3.  $a = mF$
- 4.  $m = aF$

**Que. 18** What is a unit of S.I. of Energy?

- 1. Joule
- 2. Watt
- 3. Newton
- 4. None of these

**Que. 19** Hertz is a unit of \_\_\_\_.

- 1. Pressure
- 2. Number of volts
- 3. Electrical current
- 4. Frequency

**Que. 20** Which of the following mirrors is used for solar energy storage in solar cookers?

- 1. Semi plane
- 2. Convex
- 3. Plane
- 4. Concave

**Que. 21** A person cannot read a newspaper without his glasses, he is likely to suffer from \_\_\_\_?

- 1. Hypermetropia
- 2. Myopia

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- 3. Astigmatism
- 4. Presbyopia

**Que. 22** What will be the weight of a given body in the center of the earth?

- 1. Slightly more outside the equator
- 2. Slightly less than the weight of the equator
- 3. zero
- 4. Infinite

**Que. 23** Gravity due to \_\_\_\_\_ acceleration at the equator?

- 1. is greater than the acceleration at the poles
- 2. less than the acceleration at the poles
- 3. is equal to the acceleration at the poles
- 4. does not depend on the centripetal acceleration of the Earth

**Que. 24** The direction of a magnetic field that is generated by a linear current \_\_\_\_\_?

- 1. Ampere's law
- 2. Right hand thumb rule
- 3. Joule's law
- 4. Fleming's left hand rule

**Que. 25** A dark skin person compared to white skin person will experience.

- 1. less heat and more cold
- 2. more heat and more cold
- 3. low heat and low cold
- 4. more heat and less cold

**Que. 26** Which is the smallest number which is divided by 210 and 270, in each case there are 5 left?

- 1. 1800
- 2. 1860
- 3. 1896
- 4. 1890

**Que. 27** 10 men complete a work in 10 days while 12 women complete a work in 10 days. In how many days will 10 men and 6 women complete the work together?

- 1. 5 days
- 2. 2 days
- 3. 11 days
- 4. 4 days

**Que. 28** If a 132 meter long train crosses a telephone pole in 6 seconds, find the speed of the train.

- 1. 70.6 km/h
- 2. 79.2 km/h

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- 3. 72.9 km/h
- 4. 80.8 km/h

**Que. 29** If  $(a + b) = 7$  and  $ab = 12$ , then the value of  $(a^2 + b^2)$  will be?

- 1. 18
- 2. 20
- 3. 25
- 4. 30

**Que. 30** What should be multiplied by 624 so that product is 624?

- 1. 1
- 2. 0
- 3. 2
- 4. 10

**Que. 31** Find the value  $5^4 / 5^2$ ?

- 1.  $5^{-2}$
- 2.  $5^6$
- 3.  $5^{-6}$
- 4.  $5^2$

**Que. 32** Find the percentage of a student who has scored 10 out of 40?

- 1. 2%
- 2. 33%
- 3. 25%
- 4. 4%

**Que. 33** 10% and 5% successive discount is equal to which single discount?

- 1. 14.25%
- 2. 0.15%
- 3. 14.50%
- 4. 0.14%

**Que. 34** There are total 286 children in a school, in which the ratio of boys and girls is 8 : 5, if there are 22 more girls in the school, what will be the new ratio between boys and girls?

- 1. 10 : 7
- 2. 8 : 7
- 3. 12 : 7
- 4. 4 : 3

**Que. 35** Shubham bought a mobile for Rs. 8000 and sold it for Rs. 7000. What percentage of his loss?

- 1. 12.6%

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- 2. 12.5%
- 3. 13%
- 4. 14.5%

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**Que. 36** Start the value of  $30 + 2/10 + 4/100 + 6/110$ .

- 1. 30.426
- 2. 10.264
- 3. 30.246
- 4. 11.262

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**Que. 37** The average age of 7 boys is 20 years. If the average age of the first 6 boys is  $39/2$ , then what will be the age of the seventh boy?

- 1. 23 years
- 2. 22 years
- 3. 24 years
- 4.  $49/2$  years

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**Que. 38** A truck completes a distance of 640 km in 10 hours. A car covers the same distance in 8 hours. What is the ratio of truck and car speed ?

- 1. 5 : 6
- 2. 4 : 5
- 3. 3 : 4
- 4. 1 : 2

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**Que. 39** If the diameter of the base of a cylinder is 14 cm and the surface of the curved surface is  $220 \text{ cm}^2$ , what will be the volume?

- 1.  $770 \text{ cm}^3$
- 2.  $6622 \text{ cm}^3$
- 3.  $1540 \text{ cm}^3$
- 4.  $1000 \text{ cm}^3$

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**Que. 40** A coin is tossed three times and the results are marked. What will be the possible number of results?

- 1. 6
- 2. 9
- 3. 7
- 4. 4

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**Que. 41** process of converting minerals into oxide is called?

- 1. Smelting
- 2. Bassemerization
- 3. Roasting
- 4. Reigning

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**Que. 42** Which of the following is the gas with the highest mean free path?

1.  $\text{H}_2$
2.  $\text{CO}_2$
3.  $\text{N}_2$
4.  $\text{O}_2$

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**Que. 43** Coating of the tine can be removed by \_\_\_\_\_?

1. Iron brush
2. Solvent
3. Hydrogen
4. Oxygen

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**Que. 44** Faraday's law of electrolysis is related to?

1. Equivalent weight of the electrolyte
2. Atomic number of any anion
3. atomic number of the cation
4. speed of the cation

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**Que. 45** Molecular formula of Octane is \_\_\_\_\_?

1.  $\text{C}_6\text{H}_{14}$
2.  $\text{C}_8\text{H}_{16}$
3.  $\text{C}_2\text{H}_2$
4.  $\text{C}_6\text{H}_{16}$

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**Que. 46** Blister copper is \_\_\_\_\_.

1. Alloy of Copper
2. Copper containing 1% impurity
3. Pure copper
4. Ore of copper

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**Que. 47** What are the ingredients in urea?

1. C, N, H
2. C, H, O
3. C, N, O
4. C, O, N, H

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**Que. 48** Carboxylic group is present in?

1. Ethanol
2. Formaldehyde
3. Ethylene
4. Methanoic acid

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**Que. 49** Lemon is sour due to \_\_\_\_\_.

1. Oxalic acid
2. Tartaric acid
3. Citric acid
4. Acetic acid

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**Que. 50** Nitronium is a gas used to make manure.

1.  $\text{SO}_2$
2.  $\text{N}_2$
3.  $\text{Cl}_2$
4.  $\text{NH}_3$

