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# **Army Soldier Technical**

## **Previous Year Paper (BEG Center, Kirkee - PUN) 28 Feb 2021**



## 50 Questions

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**Que. 1** The natural gaps across the mountains which provide routes are called?

1. Peaks
2. Passes
3. Dunes
4. Plateaus

Correct Option - 2

**Que. 2** Teachers day is celebrated on?

1. 01 December
2. 05 September
3. 15 January
4. 10 August

Correct Option - 2

**Que. 3** Which is the smallest planet in our solar system?

1. Earth
2. Venus
3. Mercury
4. Mars

Correct Option - 3

**Que. 4** Deficiency of vitamin A causes a disease called \_\_\_\_\_.

1. Night blindness
2. Goitre
3. Tuberculosis
4. Beri - Beri

Correct Option - 1

**Que. 5** Which of these rocks is composed of shells and skeletons of marine organisms?

1. Coal
2. Quartz
3. Limestone
4. Shale

Correct Option - 3

**Que. 6** Choose the pair / group which is different from others?

1. 11, 115
2. 10, 90
3. 9, 72
4. 8, 56

Correct Option - 1

**Que. 7** If in a certain code language YESTERDAY is coded as 537634205 then in the same code language STARYEDYE will be coded as

1. 760452353
2. 760453253
3. 460432535
4. 762453253

Correct Option - 2

**Que. 8** From the given options fill the blanks space in series:

A, C, F, H, ( ), M

1. I
2. K
3. L
4. J

Correct Option - 2

**Que. 9** Which of the following group of letters will complete the given series? ba\_b\_aab\_a\_b

1. baab
2. abab
3. baba
4. abba

Correct Option - 4

**Que. 10** In the given options three words are alike in some manner. Name the odd one out.

1. Venus
2. Moon
3. Jupiter
4. Mars

Correct Option - 2

**Que. 11** A truck covers a distance of 640 km in 10 hours. A car covers the same distance in 8 h. What is the respective ratio between the speed of the truck and the car?

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

Correct Option - 2

**Que. 12** The average age of 7 boys is 20 years. If average age of the first six boys is  $39/2$  years, what will be the age of the seventh boy?

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

Correct Option - 1

**Que. 13** A cylinder has a diameter of 14 cm and the area of its curved surface is  $220 \text{ cm}^2$ . find the volume of the cylinder?

1.  $770 \text{ cm}^3$
2.  $1540 \text{ cm}^3$
3.  $6023 \text{ cm}^3$
4.  $1000 \text{ cm}^3$

Correct Option - 1

**Que. 14** If  $(a + b) = 7$  and  $ab = 12$  then what is the value of  $(a^2 + b^2)$ ?

1. 27
2. 25
3. 20
4. 18

Correct Option - 2

**Que. 15** If a 132 meter long train makes it to a telephone pole in 6 seconds, then what is the speed of the train?

1. 70.6 km/h
2. 79.2 km/h
3. 72.9 km/h
4. 80.8 km/h

Correct Option - 2

**Que. 16** Which of the smallest number which is divided by 210 and 270, in which case 6 is left?

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

Correct Option - 4

**Que. 17** In which should 624 be multiplied so that the product is 624?

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

Correct Option - 4

**Que. 18**  $1 - [5 - \{2 + (-5 + 6 - 2)2\}]$  is equals to?

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

Correct Option - 1

**Que. 19** 10 men do a work in 10 days while 12 women complete a work in 10 days. In how many days will 15 men and 6 women complete the work together?

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

Correct Option - 3

**Que. 20** Find the value of  $30 + 2/10 + 4/100 + 6/1000$ .

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

Correct Option - 2

**Que. 21** 10% and 5% gradual discount is equal to which single discount?

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

Correct Option - 3

**Que. 22** A student gets 10 marks out of 40. What is his percentage ?

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

Correct Option - 4

**Que. 23** Shubham bought a mobile for 8000 rupees and sold it in 7000 rupees. What is his loss percent?

1. 12.5%
2. 12.6%
3. 14.5%
4. 13%

Correct Option - 1

**Que. 24** A coin is tossed three times and result noted down. Possible numbers of results will be \_\_\_\_.

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

Correct Option - 1

**Que. 25** In a school having total strength 286, the ratio of boys and girls is 8 : 5. If 22 more girls gets admitted into the school then what will be the new ratio of boys and girls?

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

Correct Option - 3

**Que. 26** If a body of mass 'm' has momentum P, then Kinetic Energy will be \_\_\_\_\_?

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

Correct Option - 3

**Que. 27** If the length of a wire is doubled (with other parameters as constant), what happens to the resistance?

1. Remains the same
2. Four times
3. Becomes half
4. Becomes double

Correct Option - 4

**Que. 28** The total resistance in the parallel combination of three resistances  $9\ \Omega$ ,  $7\ \Omega$ , and  $5\ \Omega$  is \_\_\_\_\_.

1.  $2.20\ \Omega$
2.  $4.22\ \Omega$
3.  $2.29\ \Omega$
4.  $1.22\ \Omega$

Correct Option - 1

**Que. 29** An electron with charge e is at rest in an electric field E. Then the electric force acting on it, is \_\_\_\_\_?

1. Zero
2.  $Ee$
3.  $E/e$
4.  $1/Ee$

Correct Option - 2

**Que. 30** The driver's mirror used in a motor car is \_\_\_\_\_?

1. Convex
2. Two way
3. Concave
4. Plane

Correct Option - 1

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**Que. 31** A 1500 W electric geyser is used every day for 2 hrs. Calculate the energy consumed?

- 1. 750 kWh
- 2. 30 kWh
- 3. 03 kWh
- 4. 90 kWh

Correct Option - 3

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**Que. 32** The unit of acceleration is \_\_\_\_\_?

- 1. Newton Meter<sup>2</sup>
- 2. Newton Meter
- 3. m/s<sup>2</sup>
- 4. m/s

Correct Option - 3

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**Que. 33** The SI unit of measurement of frequency is \_\_\_\_\_.

- 1. Meter
- 2. Hertz
- 3. Pascal
- 4. Joule

Correct Option - 2

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**Que. 34** An iron ball and a wooden ball of the same radius are released from a height 'H' in vacuum. The times taken by both of them to reach ground are \_\_\_\_\_.

- 1. Roughly equal
- 2. zero
- 3. Exactly equal
- 4. unequal

Correct Option - 3

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**Que. 35** When a stone is whirled around at the end of a string and is rotated, what is the pull of the string called?

- 1. Magnetic force
- 2. Centrifugal force
- 3. Gravitational force
- 4. None of the above

Correct Option - 4

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**Que. 36** The phenomenon of splitting of white light into seven colours is known as \_\_\_\_\_.

- 1. Total internal reflection
- 2. Reflection
- 3. Dispersion
- 4. None of the above

Correct Option - 3

**Que. 37** A device used to measure heights above sea level is known as \_\_\_\_\_.

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1. Potentiometer
2. Altimeter
3. Ammeter
4. None of the above

Correct Option - 2

**Que. 38** A sound wave has a frequency of 1000 Hz and wavelength of 50 cm. How long will it take to travel a distance of 500 meters?

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1. 6 s
2. 1 s
3. 3 s
4. 2 s

Correct Option - 2

**Que. 39** Weight of an object \_\_\_\_\_.

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1. is the force with which it is attracted to the earth
2. Refers to inertia
3. is the same as its mass but expressed in different units
4. is the quantity of the matter it contains

Correct Option - 1

**Que. 40** How many seconds are there in one day?

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1. 86,500 seconds
2. 86,800 seconds
3. 86,000 seconds
4. 86,400 seconds

Correct Option - 4

**Que. 41** Which of the following metal is the most abundant in the Earth's crust?

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1. Mg
2. Na
3. Al
4. Fe

Correct Option - 3

**Que. 42** Which of the following salt is insoluble in water?

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1.  $\text{CuSO}_4$
2.  $\text{MgSO}_4$
3.  $\text{NaCl}$
4.  $\text{BaSO}_4$

Correct Option - 4

**Que. 43** The major protein present in human hair is \_\_\_\_? 

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1. Keratin
2. Collagen
3. Myoglobin
4. Insulin

Correct Option - 1

**Que. 44** \_\_\_\_\_ gas is used in aerated beverages.

1. NO
2. CO<sub>2</sub>
3. SO<sub>2</sub>
4. H<sub>2</sub>S

Correct Option - 2

**Que. 45** Corrosion in metals is caused by \_\_\_\_\_.

1. Air
2. Moisture
3. Oxidation
4. Water

Correct Option - 3

**Que. 46** The metal \_\_\_\_\_ is always kept in kerosene.

1. Sodium
2. Helium
3. Calcium
4. Aluminium

Correct Option - 1

**Que. 47** Atomic mass of oxygen is \_\_\_\_\_.

1. 12
2. 11
3. 16
4. 24

Correct Option - 3

**Que. 48** Which one of the following is not an element?

1. O
2. CO<sub>2</sub>
3. H
4. Cl

Correct Option - 2

**Que. 49** Which element exhibits maximum radioactivity?

1. Thorium
2. Uranium

3. Radium
4. Polonium

Correct Option - 4

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**Que. 50** Who is known as the Father of modern chemistry?

1. Chadwick
2. Antoine Lavoisier
3. John Bell
4. Adam Smith

Correct Option - 2

