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# **Agniveer Army Soldier**

**Memory Based Paper  
(Technical)  
30 April 2024 Shift 2**



## 50 Questions

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**Que. 1** Kolar Gold Field is located in-

1. Madhya Pradesh
2. Andhra Pradesh
3. Tamil Nadu
4. Karnataka

Correct Option - 4

**Que. 2** Which festival is celebrated in Andhra Pradesh in March/April?

1. Ugadi
2. Pongal
3. Onam
4. Karaga

Correct Option - 1

**Que. 3** Which Article ensures Abolition of Untouchability ?

1. Article 16
2. Article 17
3. Article 18
4. Article 19

Correct Option - 2

**Que. 4** Who is currently the Chief of Defence Staff of India?

1. General Anil Chauhan
2. General Bipin Rawat
3. General Manoj Pande
4. None of the Above

Correct Option - 1

**Que. 5** "Take all religions together" is the philosophy of whom in India?

1. Veer Savarkar
2. Mahatma Gandhi
3. Rabindranath Tagore
4. Dr. B.R. Ambedkar

Correct Option - 2

**Que. 6** Complete the following series.

F, J, N, R, ?

1. S
2. V
3. U
4. W

Correct Option - 2

**Que. 7** A is the brother of B, B is the brother of C. C is the husband of D. E is the father of A. D is related to E as:

1. Daughter-in-law
2. Sister-in-law
3. Sister
4. Daughter

Correct Option - 1

**Que. 8** If all the A's are dropped from the given arrangement, which of the following option will be eleventh from the left end of the given arrangement?

C U B A E D E D A B E B A U C D B C A D B D U B C A C B E D A

1. U
2. E
3. C
4. D

Correct Option - 1

**Que. 9** DBMS : SMBD :: JAVA : (?)

1. AVAJ
2. AVJA
3. AAVJ
4. JAAV

Correct Option - 1

**Que. 10** Select the option that is related to the fifth term in the same way as the second term is related to the first term and fourth term is related to third term

TR4 : XC64 :: AC3 : EN27 :: FP6 : ?

1. JA216
2. JB125
3. JA125
4. JB216

Correct Option - 1

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**Que. 11** Which lens is also called converging lens?

1. Concave lens
2. Convex lens
3. Both concave and convex lens
4. None

Correct Option - 2

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**Que. 12** The force of gravitation acting between any two masses is:

1. Inversely proportional to the ratio of those masses.
2. Directly proportional to the product of those masses.
3. Inversely proportional to the product of those masses.
4. Directly proportional to the ratio of those masses.

Correct Option - 2

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**Que. 13** A person does some work of 1000 J in 2 s. His power will be \_\_\_\_\_.

1. 1000 W
2. 25 W
3. 500 W
4. 50 W

Correct Option - 3

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**Que. 14** What is the SI Unit of volume?

1. Cubic centimeter
2. Cubic meter
3. Cubic decimeter
4. Cubic inch

Correct Option - 2

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**Que. 15** Calculate the work done to take an object of mass 10 kg to a height of 20 m. ( $g = 9.8 \text{ m/s}^2$ ).

1. 98 J
2. 980 J

3. -1960 J
4. 19.6 J

Correct Option - 3

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**Que. 16** How is the volume of liquid measured in the laboratory?

1. By weight
2. By temperature
3. By length
4. By using a graduated cylinder

Correct Option - 4

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**Que. 17** In a magnet, the magnetic field is strongest at

1. The pole of a magnet
2. The middle of a magnet
3. Mid-way between the poles and center of a magnet
4. A point far away from the poles of a magnet

Correct Option - 1

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**Que. 18** If Mass = 5 kg and Acceleration =  $5 \text{ m/s}^2$ . Then, the value of force (F) so obtained will be \_\_\_\_\_.

1. 50 N
2. 25 N
3. 12.5 N
4. 45 N

Correct Option - 2

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**Que. 19** The working principle of a rocket engine is based on the-

1. Newton's first law of motion
2. Newton's second law of motion
3. Newton's third law of motion
4. Conservation of energy

Correct Option - 3

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**Que. 20** What is the name of the force with which earth pulls everything towards itself?

1. Air pressure
2. Thrust
3. Gravity
4. Resistance

Correct Option - 3

**Que. 21** If the length of a resistance wire is doubled and its cross-sectional area is halved, then the resistivity would

1. increase two times
2. increase four times
3. increase eight times
4. remain unchanged

Correct Option - 4

**Que. 22** A circuit consists of three resistors,  $R_1$ ,  $R_2$  and  $R_3$ , and they have the values  $5\ \Omega$ ,  $10\ \Omega$  and  $30\ \Omega$ , respectively. Each of the resistors is in parallel with the other. Find the total resistance of the circuit?

1.  $5\ \Omega$
2.  $3\ \Omega$
3.  $6\ \Omega$
4.  $1\ \Omega$

Correct Option - 2

**Que. 23** Permanent magnet is made from

1. Silicon Steel
2. Cobalt Steel
3. Nickel Steel
4. Manganese Steel

Correct Option - 2

**Que. 24** The speed of sound in water is \_\_\_\_\_ the speed of sound in air.

1. Same as
2. Less than
3. Greater than
4. Sometimes greater and sometimes smaller

Correct Option - 3

**Que. 25** Which of the following eye diseases is related to near-sightedness?

1. Trachoma
2. Cataract
3. Myopia
4. Hypermetropia

Correct Option - 3

**Que. 26** The ratio of areas of two circles is 9 : 16. What will be the ratio of their circumference?

1. 9 : 16
2. 3 : 4
3. 4 : 3
4. 4 : 5

Correct Option - 2

**Que. 27** If  $P(A \cup B) = 3/4$ ,  $P(A \cap B) = 1/4$ ,  $P(\bar{A}) = 2/3$ , then find the value of  $P(B)$ .

1. 1/3
2. 1
3. 5/3
4. 2/3

Correct Option - 4

**Que. 28** What is the HCF of 12, 18 and 42?

1. 123
2. 12
3. 6
4. 60

Correct Option - 3

**Que. 29** If  $A' = \begin{bmatrix} -2 & 3 \\ 1 & 2 \end{bmatrix}$  and  $B = \begin{bmatrix} -1 & 0 \\ 2 & 3 \end{bmatrix}$  then  $(3A + 2B)'$  is:

1.  $\begin{bmatrix} -2 & 5 \\ 1 & 10 \end{bmatrix}$
2.  $\begin{bmatrix} 8 & 13 \\ -2 & 12 \end{bmatrix}$
3.  $\begin{bmatrix} -8 & 13 \\ 3 & 12 \end{bmatrix}$
4.  $\begin{bmatrix} 7 & 10 \\ -3 & 12 \end{bmatrix}$

Correct Option - 3

**Que. 30**

If  $\begin{vmatrix} 2x - 4 & 4 & 0 \\ 2 & x - 1 & 1 \\ 2 & 2 & 0 \end{vmatrix} = 0$ , then  $x = ?$

1. 4
2. -4
3. -5
4. 5

Correct Option - 1

**Que. 31** 3 pens and 4 books costs 95 Rs. 5 pens and 2 books costs 65 Rs. Find the cost price of 1 book.

1. 10 Rs
2. 20 Rs
3. 25 Rs
4. 15 Rs

Correct Option - 2

**Que. 32** 24 men can complete a job in 40 days. The number of men required to complete the job in 32 days is:

1. 30
2. 40
3. 25
4. 50

Correct Option - 1

**Que. 33** In a clothing store, there are 80 white shirts and 100 black shirts. What percentage is the white shirt less than the black shirt?

1. 20%
2. 40%
3. 25%
4. 30%

Correct Option - 1

**Que. 34** Solve the following:

$$14 \div \{12 + 4 \times 3 - 5(1 + 1)\} = ?$$

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

Correct Option - 4

**Que. 35** If  $\cos A = \frac{7}{25}$  then  $\tan A + \cot A = \underline{\hspace{2cm}}$

1.  $\frac{25}{168}$
2.  $\frac{168}{25}$
3.  $\frac{625}{168}$
4.  $-\frac{625}{168}$

Correct Option - 3

**Que. 36** The value of  $2\tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$  is:

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

Correct Option - 1

**Que. 37** Find the simple interest on Rs.12600 at 35% per annum for 6 months. (in Rs)

1. 2205
2. 2210
3. 2200
4. 2225

Correct Option - 1

**Que. 38** The volume of a cube whose side is 12 cm is:

1.  $1828 \text{ cm}^3$
2.  $1928 \text{ cm}^3$
3.  $1728 \text{ cm}^3$
4.  $1628 \text{ cm}^3$

Correct Option - 3

**Que. 39** If  $A : B = 3 : 1$  and  $A : C = 7 : 4$ , then what is  $(A + B) : (B + C)$ ?

1. 28 : 19
2. 56 : 37
3. 19 : 28
4. 29 : 6

Correct Option - 1

**Que. 40** The value of  $50 - 4 \text{ of } (17 - 12) + 4 \times 7$  is:

1. 54
2. 42
3. 58
4. 56

Correct Option - 3

**Que. 41** The molecular mass of  $\text{O}_2$  is \_\_\_\_\_

1. 8
2. 16
3. 32
4. 20

Correct Option - 3

**Que. 42** What type of change is the conversion of water into ice?

1. Chemical change
2. Physical change
3. Biological change
4. Nuclear change

Correct Option - 2

**Que. 43** The valency of carbon is \_\_\_\_\_.

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

Correct Option - 1

**Que. 44** How much percentage of nitrogen is present in the atmosphere?

1. 78%
2. 89%
3. 67%
4. 71%

Correct Option - 1

**Que. 45** Rusting of Iron is a common example of:

1. Physical Change
2. Exothermic Change
3. Endothermic Change
4. Chemical Change

Correct Option - 4

**Que. 46** Which of the following is a homogeneous mixture?

1. Starch solution
2. Buttermilk in water
3. Sewage water
4. Sugar in water

Correct Option - 4

**Que. 47** What is the chemical formula of Dry ice?

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

Correct Option - 2

**Que. 48** Which gas evolves when ammonium chloride reacts with sodium?

1. Oxygen
2. Hydrogen
3. Ammonia
4. Carbon dioxide

Correct Option - 3

**Que. 49** When a magnesium ribbon is burnt in oxygen, it gets converted to \_\_\_\_\_.

1. Magnesium oxide
2. Magnesium chloride
3. Magnesium dioxide
4. Magnesium hydride

Correct Option - 1

**Que. 50** Which one among the following contains the most neutrons?

1.  $^{59}_{26}Fe$
2.  $^{61}_{29}Cu$
3.  $^{61}_{30}Zn$
4.  $^{60}_{30}Zn^{2+}$

Correct Option - 1

