

SSC & Railway Exams

Home Assignment



1. Which number will replace the question mark (?) in the following series?

39, 121, 245, 739, 1481, ?

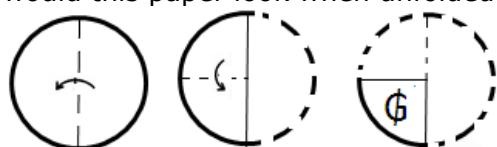
- A. 4447 B. 2025
C. 5480 D. 4120

2. Select the combination of letters that when sequentially placed in the gaps of the given

abba_babb_bbab_abba_ba_b

- A. aaabb B. babaa
C. baaab D. babbb

3. The sequence of folding a piece of square paper and the manner in which the folded paper has been cut is shown in the figures X, Y and Z. How would this paper look when unfolded?



- A. B.
C. D.

4. Select the option which has same relationship as the number set given below.

(25, 65, 169)

- A. (15, 75, 247)
B. (75, 195, 507)
C. (18, 39, 120)
D. (55, 105, 235)

5. Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

- 1) Microwaves
- 2) Ultraviolet Waves
- 3) Infrared Waves
- 4) Radio Waves
- 5) X- Rays
- 6) Visible Light Rays
- 7) Gamma Rays

- A. 4, 1, 5, 6, 2, 3, 7
B. 4, 1, 3, 6, 2, 5, 7
C. 7, 1, 3, 6, 2, 5, 4
D. 4, 2, 3, 6, 1, 5, 7

6. Ohm's law in electricity is expressed as which of the following equation?

- A. $Q = IT$ B. $P = IV$
C. $R = I/A$ D. $V = IR$

7. Above which temperature, a magnetic substance is converted into paramagnetic substance?

- A. Curie Temperature
B. Adam Temperature
C. Critical Temperature
D. Newton Temperature

8. 'Zonda' is a name given to local wind of which country?

- A. India B. Kenya
C. Argentina D. Canada

9. Who among the freedom fighters of India was not honoured with Bharat Ratna?

- A. Vinoba Bhave
B. Jawahar Lal Nehru
C. Khan Abdul Gaffar Khan
D. Aurbindo ghosh

10. Which of the following articles of the Indian Constitution is related to the appointment of the Governor?

- A. Article 155 B. Article 153
C. Article 168 D. Article 157

11. If $\operatorname{cosec} 2\theta = \sec (3\theta - 15^\circ)$, then θ is equal to:

- A. 22° B. 25°
C. 21° D. 20°

12. If $(5a - 3b) : (4a - 2b) = 2 : 3$, then $a : b$ is equal to:

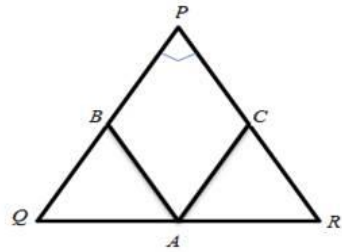
- A. 3 : 4 B. 5 : 7
C. 2 : 3 D. 5 : 8

13. In the adjoining figure PQR is a right-angled triangle $\angle P = 90^\circ$, PCAB is a square, QA = 5 cm and QR = 9 cm. What is the area of triangle PQR?



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- A. 30 cm^2
- B. 44.45 cm^2
- C. 56.22 cm^2
- D. 70 cm^2

14. The value of the expression $1 - \frac{\sin^2 y}{1 + \cos y} + \frac{1 + \cos y}{\sin y} - \frac{\sin y}{1 - \cos y}$ is equal

to?

- A. 0
- B. $\sin y$
- C. $\cos y$
- D. 1

15. Simplify 68% of 595 - 43% of 372:

- A. 244.64
- B. 232.84
- C. 278.44
- D. None of these



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