

Home Assignment

for SSC & Railways Aspirants



1. Which of the following state government has launched the database portal 'academisthan.com' to serve as a resource centre for educational institutions to make better policy decisions?

- A. Delhi B. Gujarat
C. Rajasthan D. Maharashtra
E. Uttar Pradesh

2. Who is appointed as the next Chairman-cum-Managing Director of Coal India Limited?

- A. B Veera Reddy B. Pramod Agarwal
C. Anil Kumar Jha D. Sanjeev Singhal
E. Manoj Mathur

3. A mobile app _____ has been launched to help para-athletes to look up accessible places in Tokyo during their visit to the city for the 2020 Paralympics Games.

- A. Tokyo20 B. IndTokyo
C. Paralympics2020 D. IndiaTokyo2020
E. None of these

4. Who among the following has topped the Forbes' list 2019 of highest paid female actors in the world?

- A. Sofia Vergara
B. Nicole Kidman
C. Jennifer Aniston
D. Scarlett Johansson
E. Kaley Cuoco

5. The question below consists of a set of labelled sentences. These sentences, when properly sequenced form a coherent paragraph. Select the most logical order of sentences from among the options.

P: Two things play a very big role according to personality and those are the dressing sense and the knowledge.

Q: Personality determines the image of the person in the society.

R: If person is rich and having good and expensive clothes so his personality is better than other people.

S: More important is knowledge but in today's society people give more

preference to the dressing sense.

- A. QSRP B. QPSR
C. PQRS D. SRQP

6. _____ is not a web browser.

- A. Netscape
B. Mozilla
C. Internet Explorer
D. Chrome
E. Telnet

7. Improve the bracketed part of the sentence.

Tax-payers (are to) be conscious of their privileges.

- A. could B. No improvement
C. have to D. might

8. Improve the bracketed part of the sentence.

The boxer was knocked out, but (came out) in a few seconds.

- A. came up
B. came on
C. came round
D. No improvement.

9.

If, $a + \frac{1}{a} = 3$, then find $\frac{a^3 + 1}{a^4}$

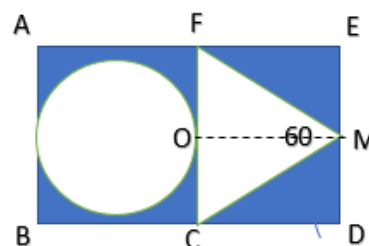
$$2\left(\frac{a+1}{a^3}\right)\left(a - \frac{1}{a}\right)$$

- A. $1/\sqrt{6}$ B. $1/\sqrt{5}$
C. $1/6$ D. $1/\sqrt{3}$

10. In the following figure

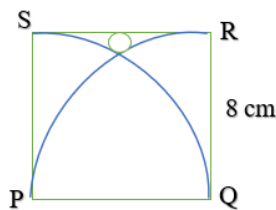
$BC = CD, EM = MD, AB \parallel FC \parallel ED$,

$\angle FMC = 60^\circ$ and $AB = \frac{28}{\sqrt{3}}$. Find the area of shaded region?



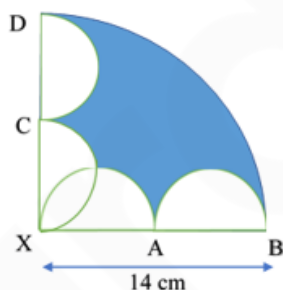
- A. $14(14\sqrt{3} - 11)$
 B. $14(14\sqrt{3} + 11)$
 C. $28(14\sqrt{3} - 11)$
 D. $42(14\sqrt{3} - 11)$

11. In the given figure PQRS is a square whose side is 8 cm. PQS and QPR are two quadrants. A circle is placed touching both quadrants and the square as shown in the figure. What is the area (in cm^2) of circle?



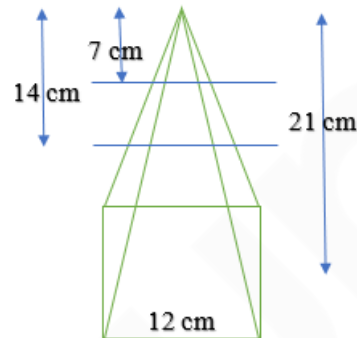
- A. $\frac{11}{14} \text{ cm}^2$
 B. $\frac{14}{11} \text{ cm}^2$
 C. $\frac{11}{12} \text{ cm}^2$
 D. $\frac{6}{7} \text{ cm}^2$

12. In the given figure, four identical semicircles are drawn in quadrant. $XA = 7 \text{ cm}$. What is the area (in cm^2) of shaded region?



- A. 70 cm^2
 B. 140 cm^2
 C. 77 cm^2
 D. 84 cm^2

13. A pyramid has a square base. The side of square is 12 cm and height of pyramid is 21 cm. The pyramid is cut into 3 parts by 2 cuts parallel to its base. The cuts are at height of 7 cm and 14 cm respectively from the base. What is the difference (in cm^3) in the volume of top most and bottom part?



- A. 672
 B. 944
 C. 786
 D. 918

14. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.

3	5
2	6
8	1

2	4
3	8
2	6

9	3
2	1
7	?

- A. 1
 B. 2
 C. 3
 D. 4

15. If in some language JAGUAR is coded as "117319" and FERRARI is coded as "6599199", then what is the code for MASERATI?

- A. 411059487
 B. 411059129
 C. 411659129
 D. 411059130
 E. 423059129

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