



C SIR UGC NET, GATE (ENGINEERING), GATE (Science), IIT-JAM, UGC NET, TIFR, IISC, NIMCET, JEST etc.



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CSIR UGC NET, GATE (ENGINEERING), GATE (Science), IIT-JAM, UGC NET, TIFR, IISC, NIMCET, JEST etc. (4) Rs. 9 8. In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the seling price is the profit? (1) 30% (2) 70% (3) 100% (4) 250% 9. Today is Friday after 62 days, it will be : (1) Thursday (2) Friday (3) Wednesday (4) Tuesday 10. car travelling with of its actual speed covers 42 km in 1 hr 40 min 48 sec. Find the actual speed of the car (2) 25 km/hr (3) 30 km/hr (4) 35 km/hr Phone: 0744-2429714 Mobile: 9001297111, 9829567114, 9829597114, 9001297243 E-Mail: vpmclasses@yahoo.com / info@vpmdasses.com Website: www.vpmdasses.com

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- 11. P is a working and Q is a sleeping partner. P puts in Rs. 3400 and Q puts Rs.6500. P receives 20% of the profits for managing. The rest is distributed in proportion to their capitals. Out of a total profit of Rs.990, how much did P get ?
  - (1) 460
  - (2) 470
  - (3) 450
  - (4) 480
- 12. A law n is the form of a rectangle having its side in the ratio 2:3. The area of the law n is 1/6 hectares. Find the length and breadth of the law n.
  - (1) 25m
  - (2) 50m
  - (3) 75m
  - (4) 100 m
- 13. An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1 hours, it must travel at a speed of:
  - (1) 300 kmph
  - (2) 360 kmph
  - (3) 600 kmph
  - (4) 720 kmph

14. Find out the missing number of the given question:



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- 15. All of the follow ing are the same in a manner. Find out the one which is different among them:
  - (1) BFJQ
  - (2) RUZ G
  - (3) GJOV
  - (4) ILQX
- 16. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of themare red is:
  - (1)  $\frac{1}{22}$
  - (2)  $\frac{3}{22}$
  - (3)  $\frac{2}{91}$
  - $(4) \frac{2}{77}$

(1)  $\frac{5}{6}$ 

(2)

(3)

12

17. When two dice are thrown simultaneously, what is the probability that the sum of the two numbers that turn up is less than 11?

- 18. Two coins are tossed, find the probability that two heads are obtained
  - (1)(2)  $\frac{1}{4}$

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EXERCISE VALUE AND A CALL (SCIENCE), ITT-XMU, UCC NET, THR, ITSC, NIMCET, JEST etc.  
(since total umpbyod = 360 - unemployed)  

$$= \frac{16}{342} \times 100 = 5\frac{5}{19}$$
  
6.(2) This is an alternating multiplication and subtracting series: First, multiply by 2 and then subtract 8.  
7.(1) Total quantity of petrol =  $\left(\frac{4000}{7.50} + \frac{4000}{8} + \frac{4000}{8.50}\right)$  litres  
 $= \left(\frac{76700}{51}\right)$  litres  
Total amount spent = Rs. (3x 4000) = Rs. 12080  
Average cost =  $\left(\frac{12000 \times 51}{76700}\right) = \text{Rs.} \frac{6120}{767} - \text{Rs.} 7.093$   
8.(2) Let C.P.= Rs. 100. Then, Profit = R8.220, S.P. = RS.7420.  
New C.P. = 125% of Rs. 100 = FR8.1256  
Median encoded and the required day is Thursday.  
Profit = Rs. (420 - 125) = Rs.1095.  
Required percentaget  $\left(\frac{295}{420} \times 100\right) = \frac{1475}{21} \% = 70\%$  (approximately)  
A student multiplies anymoly by  $\frac{3}{5}$  instead of  $\frac{5}{3}$   
9.(4) Each have of the required day is Thursday.  
10.(4)  $40\frac{4}{5} \min = \frac{51}{75} \ln s = \frac{126}{75} \ln s.$   
The taken = 1 hr 40 min 48 sec = 1 hr  
Let the actual speed be x km/hr.



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We use the formula of the classical probability.

$$\mathsf{P}(\mathsf{E}) = \frac{\mathsf{n}(\mathsf{E})}{\mathsf{n}(\mathsf{S})} = \frac{1}{4}$$

- **19.(4)** Start at the top left and move in alternate boxes from left to right, then down one row and to the left, in a snakes and ladders pattern. Letters advance through the alphabet in steps of 2, 3, 4...8, before repeating this pattern.
- 20.(4) In each row, the numerical value of the central letter equals the difference between the sum of the numerical values of the tw o left hand letters and the sum of the numerical values of the tw o right hand letters.

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