

MAHCET MBA Daily Practice - 2

1. A bottle of 435 ml has a mixture of wine and water in which wine is $41\frac{2}{3}\%$ more than the water. If 20% of the mixture is taken out and then 48 ml of water is added to the mixture, then find by what percent quantity of water is less than that of wine?
A. 6.7%
B. 5.9%
C. 4.9%
D. 9.9%
E. 6.3%
2. The cost price of a pair of jeans exceeds the cost price of a pair of shoes by 26.67%. Given that the jeans are sold at a 32% profit for Rs. 2508, and the shoes are sold at a 22% discount with a resulting profit of Rs. 450, determine the marked price of the shoes.
A. Rs. 2400
B. Rs. 2000
C. Rs. 1950
D. Rs. 2250
E. Rs. 2500
3. If 80 men can complete 48% of the work in 16 days, working 12 hours a day, then in how many days will 60 men complete 42% of the work, working 14 hours a day?
A. 16 days
B. 18 days
C. 20 days
D. 12 days
E. 24 days
4. A sum of Rs. 2500 is distributed among X, Y, and Z in the ratio $1/2:3/4:5/6$. What is the difference between the maximum share and the minimum share?
A. Rs. 300
B. Rs. 350
C. Rs. 400
D. Rs. 450
E. Rs. 500
5. A boat can cover 156 km in still water in 12 hours, and it can cover 234 km downstream and 112 km upstream in 27 hours. In how much time can the boat cover 360 km downstream?
A. 15 hours
B. 12 hours
C. 18 hours
D. 16 hours
E. 20 hours

6. Find the number of permutations in arranging the letters of the word 'STATURE' such that vowels are always in odd places.

- A. 576
- B. 360
- C. 288
- D. 224
- E. 240

7. A contractor was signed to construct a road which had to be completed by 35 women in 15 days. All women started working together, but after 8 days, 14 more women joined. The remaining work was completed with additional women in how many days?

- A. 6 days
- B. 8 days
- C. 4 days
- D. 5 days
- E. 3 days

8. What is the probability that out of the first 25 natural numbers, a number is a multiple of 3 or 5?

- A. $\frac{2}{5}$
- B. $\frac{11}{25}$
- C. $\frac{12}{25}$
- D. $\frac{13}{25}$
- E. $\frac{14}{25}$

9. The difference between CI and SI on Rs. 1200 after 2 years at a certain rate of interest is Rs. 75. Find the CI on Rs. 1600 after 3 years at the same rate of interest.

- A. Rs. 1500
- B. Rs. 1525
- C. Rs. 1575
- D. Rs. 1460
- E. Rs. 1580

10. In a class, the average age of 35 students is 45 years. When 5 students shifted to another section, the average age increased by 3 years. Find the total age of 5 students who shifted to another section.

- A. 140 years
- B. 135 years
- C. 120 years
- D. 150 years
- E. 125 years

11. Virat and Anushka enter into a partnership with capital in the ratio 5:6. After 4 months, Virat withdrew $\frac{1}{5}$ th of his capital while Anushka

increased her capital by 33.33%. What is Anushka's share of the annual profit of Rs. 63000?

- A. Rs. 39600
- B. Rs. 36900
- C. Rs. 36000
- D. Rs. 35200
- E. Rs. 37500

12. The present ages of Bharat and Laxman are in the ratio of 10:13. The ratio of Bharat's age ten years ago to Laxman's age ten years hence is 8:15. Determine the ratio of Bharat's age ten years hence to Laxman's age ten years ago.

- A. 14:13
- B. 13:14
- C. 11:12
- D. 12:11
- E. 12:13

13. How many 5-digit numbers can be formed using only 1 and 2 such that they are divisible by 6?

- A. 12
- B. 10
- C. 6
- D. 5
- E. 4

14. Two containers, X and Y, have the same capacity. Container X is full of milk, and container Y is $\frac{3}{4}$ full of water. Milk from container X is poured into container Y until Y is full. Then, the mixture from container Y is poured back into container X until X is full. What is the final proportion of milk in container X?

- A. $\frac{7}{8}$
- B. $\frac{13}{16}$
- C. $\frac{15}{16}$
- D. $\frac{9}{10}$
- E. $\frac{11}{12}$

15. Along a train track, two electric poles are situated. A train, moving at a speed of 96 km/h, passes both poles in 18 seconds. Given that the distance separating the poles is equivalent to the length of the train, determine the length of the train.

- A. 240 m
- B. 128 m
- C. 192 m
- D. 144 m
- E. 160 m

16. The profit on selling a bag is 37.5% more than the discount given on its marked price. If the selling price of the item is Rs. 560, find the marked price of the item.

- A. 720
- B. 640
- C. 760
- D. 680
- E. Cannot be determined

17. A and B partnered in a business venture. Initially, A invested Rs. 45000 and B invested Rs. 52000, each for a period of 5 months. Following this, A increased their investment by Rs. 5000, and B increased their investment by Rs. 8000. Determine the ratio of A's profit share to B's profit share at the end of the year.

- A. 117:188
- B. 113:168
- C. 115:136
- D. 111:145
- E. 110:143

18. A drop of 10% in the price of petrol enabled David to fill half a liter more petrol in his bike for Rs 360. Find the original price of 1 liter of petrol?

- A. 60
- B. 72
- C. 90
- D. 80
- E. 100

19. A milkman has a mixture of milk in which the ratio of milk and water is 5:3. He sells 40 litres of the mixture, and then he adds 15 liters of pure water. Now the ratio of milk and water is 5:4. What was the original quantity of the mixture?

- A. 120 liters
- B. 270 liters
- C. 144 liters
- D. 180 liters
- E. 160 liters

20. A library has the following collection of books: 400 short-length fiction books, 300 long-length fiction books, 800 short-length non-fiction books, and 500 long-length non-fiction books. If a non-fiction book is selected at random, what is the probability that it is short-length?

- A. $\frac{8}{13}$
- B. $\frac{2}{3}$
- C. $\frac{3}{5}$
- D. $\frac{2}{5}$

E. 5/13

21. A sum of Rs 7000 is deposited in two schemes. One part is deposited in Scheme A, which offers 8% rate of interest. The remaining part is invested in Scheme B, which offers 10% rate of interest compounded annually. If the interest obtained in scheme A after 4 years is Rs 226 more than the interest obtained in scheme B after 2 years, find the part deposited in scheme B.

- A. Rs 3200
- B. Rs 4500
- C. Rs 3800
- D. Rs 3500
- E. Rs 2800

22. Sarita, Udita, and Vini had some money in the ratio 9:6:5. Sarita distributed some of the money she had among the other two. As a result, the ratio of the amounts with them became 10:8:7. What portion of her money did she distribute?

- A. $\frac{1}{9}$
- B. $\frac{1}{10}$
- C. $\frac{1}{8}$
- D. $\frac{2}{25}$
- E. Cannot be determined

23. The ratio of the sum of n terms of two arithmetic progressions is $(3n+2):(3n+4)$. What is the ratio of their 4th terms?

- A. 7:9
- B. 11:13
- C. 15:17
- D. 21:23
- E. 23:25

24. The average age of a group of some persons is 16.75 years. By joining 20 new persons with an average age of 13.25 years, the average age of the group becomes 15 years. Find the number of persons in the group initially.

- A. 20
- B. 18
- C. 16
- D. 24
- E. 15

25. A car travels at a speed of 60 km/hr for $\frac{1}{3}$ of the distance, at 80 km/hr for half the distance, and at 30 km/hr for the remaining distance. What is the average speed of the car?

- A. 54 km/hr
- B. 48.6 km/hr

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- C. 50.4 km/hr
- D. 52.8 km/hr
- E. 57.6 km/hr



Answers:

1. B
2. E
3. A
4. C
5. E
6. C
7. D
8. C
9. B
10. B
11. A
12. D
13. D
14. B
15. A
16. B
17. C
18. D
19. E
20. A
21. C
22. A
23. E
24. A
25. E

