

Problem Set - II

1. The population of a village decreases at the rate of 20% per annum. If its population 2 years ago was 10,000, what is its present population?

Robert Bosch

- A. 6000
- B. 7200
- C. 6400
- D. 7600

2. If the price of the item goes up by 20% by what percentage should it be reduced to bring it down to the original price?

Bridgei2i

- A. 10%
- B. 20%
- C. $15\frac{2}{3}\%$
- D. $16\frac{2}{3}\%$

3. Twin brothers, Lava and Kusha wrote the TCS TNQT test. While Lava scored 45% and got 4 marks, below the cut-off. Kusha scored 60% and got 8 marks above the cut-off and got selected for the interview. What is the maximum marks in the test?

TCS Ninja

- A. 80
- B. 90
- C. 100
- D. 120

4. George's salary is 20% more than Mark's, Harry's salary is 30% greater than George's. Tony's salary is 40% more than Albert's. Albert's salary is 20% lesser than George's. What is Albert's salary as a percentage of Tony's salary (to the nearest percentage point)?

TCS Digital

- A. 82%
- B. 71%
- C. 69%
- D. 60%

5. The value of a machine depreciates from Rs 32,768 to Rs 21,952 in three years. What is the rate % of depreciation?

L&T

- A. 11%
- B. 12.25%
- C. 12.5%
- D. 13%

6. 46% of 24 is what percentage of 26?

Accenture

- A. 4.24
- B. 42.4
- C. 424
- D. 4

7. 32% of 425 – $x\%$ of 250 = 36. Find x .

Infosys

- A. 20
- B. 40
- C. 60
- D. 80

8. The ratio of Amit and Bharghav's salary are in the ratio 3: $\frac{8}{3}$. By what percentage Amit's Salary is greater than Bhargav's Salary?

Musigma

- A. 37.5%
- B. 11.11%
- C. 12.5%
- D. 22.22%

9. A cycle agent buys 30 bicycles, of which 8 are first grade and the rest are the second grade for Rs. 3150. Find at what price he must sell the first-grade bicycles so that if he sells the second-grade bicycles at the third quarter of the price, he may make a profit of 40% on both the types of transactions?

Robert Bosch

- A. Rs. 200
- B. Rs. 240

- C. Rs. 180
- D. Rs. 210

10. A school has a student population of 560. The number of girls is $14\frac{2}{7}\%$ of the number of boys. How many girls are there in the school?

Oracle

- A. 70
- B. 140
- C. 200
- D. 100

11. Heinz produces tomato puree by boiling tomato juice. The tomato puree has only 20% water while the tomato juice has 90% water. How many liters of tomato puree will be obtained from 20 litres of tomato juice?

Elitmus

- A. 2 liters
- B. 2.4 liters
- C. 2.5 liters
- D. 6 liters

12. An exhibition was conducted for 4 weeks. The number of tickets sold in 2nd work week was increased by 20% and increased by 16% in the 3rd work week but decreased by 20% in the 4th work week. Find the number of tickets sold in the beginning, if 1392 tickets were sold in the last week.

Accenture

- A. 1200
- B. 1250
- C. 1300
- D. 1350

13. A new apartment complex purchased 60 toilets and 20 shower heads. If the price of a toilet is three times the price of a shower head, what percent of the total cost was the cost of all the shower heads?

Accenture

- A. 9%
- B. 10%
- C. 11%
- D. 13%

14. If the simple interest on a sum of money for 2 years at 5% per annum is Rs. 50, what is the compound interest on the same at the same rate and for the same time?

I Exceed Technology

- A. Rs. 51.25
- B. Rs. 52
- C. Rs. 54.25
- D. Rs. 60

15. Find the compound interest on Rs. 8000 at 20% per annum for 9 months compounded quarterly?

L&T Constructions

- A. Rs. 1251
- B. Rs. 1261
- C. Rs. 1271
- D. Rs. 1241

16. The difference between SI and CI compounded annually on a certain sum of money for 2 years at 8% per annum is Rs. 12.80. Find the principal.

Mitsogo Technologies

- A. Rs. 1500
- B. Rs. 1800
- C. Rs. 2000
- D. Rs. 2200

17. In how much time would the simple interest on a certain sum be 0.125 times the principal at 10% per annum?

Infosys

- A. $1\frac{1}{4}$ years
- B. $1\frac{3}{4}$ years
- C. $2\frac{1}{4}$ years
- D. $2\frac{3}{4}$ years

18. A sum of money amounts to Rs.9800 after 5 years and Rs.12005 after 8 years at the same rate of simple interest. The rate of interest per annum is?

Amazon

- A. 5%

- B. 8%
- C. 12%
- D. 18%

19. In a certain city, 60% of the registered voters are congress supporters and the rest are BJP supporters. In an assembly election, if 75% of the registered congress supporters and 20% of the registered BJP supporters are expected to vote for candidate A, what percent of the registered voters are expected to vote for candidate A?

TCS Ninja

- A. 53
- B. 60
- C. 75
- D. 20

20. What is the difference between the interest gained by investing Rs.10,000 at 8%p.a compounded annually for 2 years and investing the same amount at 4%p.a compounded annually for 4 years.

Musigma

- A. 34
- B. 30
- C. 0
- D. 16

21. A sum of money triples itself in 3 years at compound interest. How long will it take for the same sum of money to become 9 times of itself?

Oracle

- A. 4 years
- B. 9 years
- C. 6 years
- D. 7 years

22. A sum of money amounts to Rs.868 in 3 years and Rs.980 in 5 years. What is the simple interest rate?

Oracle

- A. 8%
- B. 5%

- C. 6%
- D. 7%

23. Given that the interest is only earned on principal, if an investment of Rs. 1000 amounts to Rs. 1440 in two years, then what is the rate of interest earned?

Wipro

- A. 20%
- B. 22%
- C. 21%
- D. 11%
- E. 44%

24. The difference between the compound and simple interest on a certain sum for 2 years at the rate of 8% per annum is Rs.80. What is the sum?

Wipro

- A. 11,880
- B. 12,500
- C. 13,250
- D. 14,270

25. Two Equal Amounts of Money are lent out at 6% and 5 % simple Interest respectively at the same time. The former is recovered two years earlier than the latter and the amount so recovered in each case is Rs.2800. Determine the amount that is lent out?

Wipro

- A. 1750
- B. 1500
- C. 1800
- D. 1375

Answers:

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