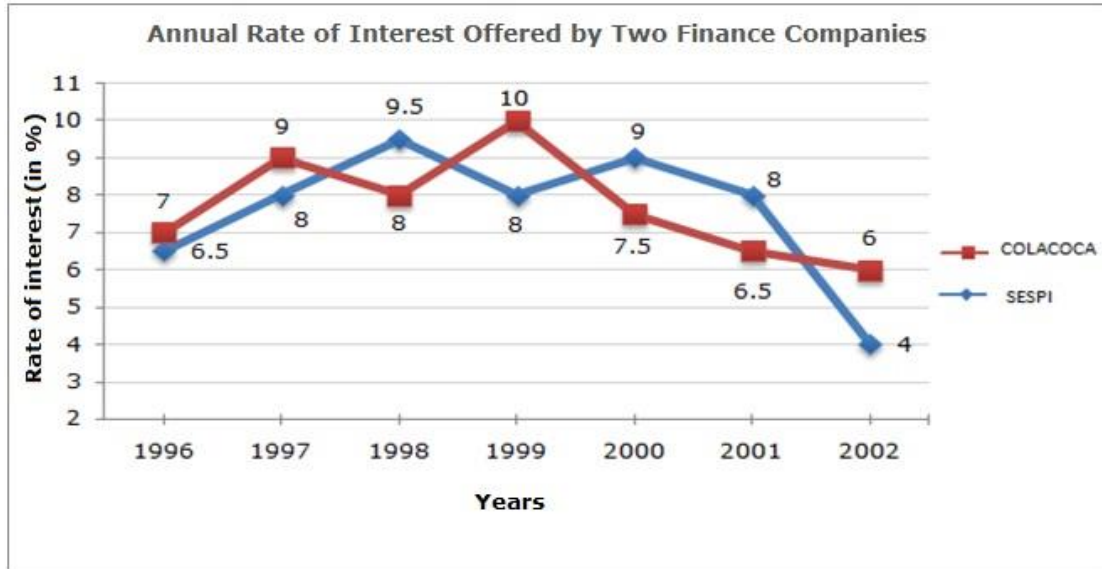


## LINE GRAPH - III

**Direction:** “COLACOCA” and “SESPI” are two different finance companies and they declare fixed annual rate of interest on the amounts invested with them by investors. The annual rate of interest offered by the two Companies over the years are shown by the line graph below.



- In year 2000, a part of Rs. 60 lakhs was invested in “COLACOCA” and the rest was invested in “SESPI” for one year. The total interest received was Rs. 4.86 lakhs. What was the amount invested in “COLACOCA”?  
a) 18                      b) 36                      c) 24                      d) 40
- An investor invested a sum of Rs. 12 lakhs in “COLACOCA” in 1998. The total amount received after one year was re-invested in the same Company for one more year. The total appreciation received by the investor on his investment was?  
a) 2,96,200              b) 2,42,200              c) 2,25,600              d) 2,16,000
- An investor invested Rs. 5 lakhs in “SESPI” in 1996. After one year, the entire amount along with the interest was transferred as investment to “COLACOCA” in 1997 for one year. What amount will be received from “COLACOCA”, by the investor?  
a) 5,94,550              b) 5,80,425              c) 5,77,800              d) 5,77,500
- A sum of Rs. 4.75 lakhs was invested in “SESPI” in 1999 for one year. How much more interest would have been earned if the sum was invested in “COLACOCA”?  
a) 19000                  b) 14250                  c) 11750                  d) 9500

**Direction:** Refer to the following charts and answer the questions that follow.

Figure (A)

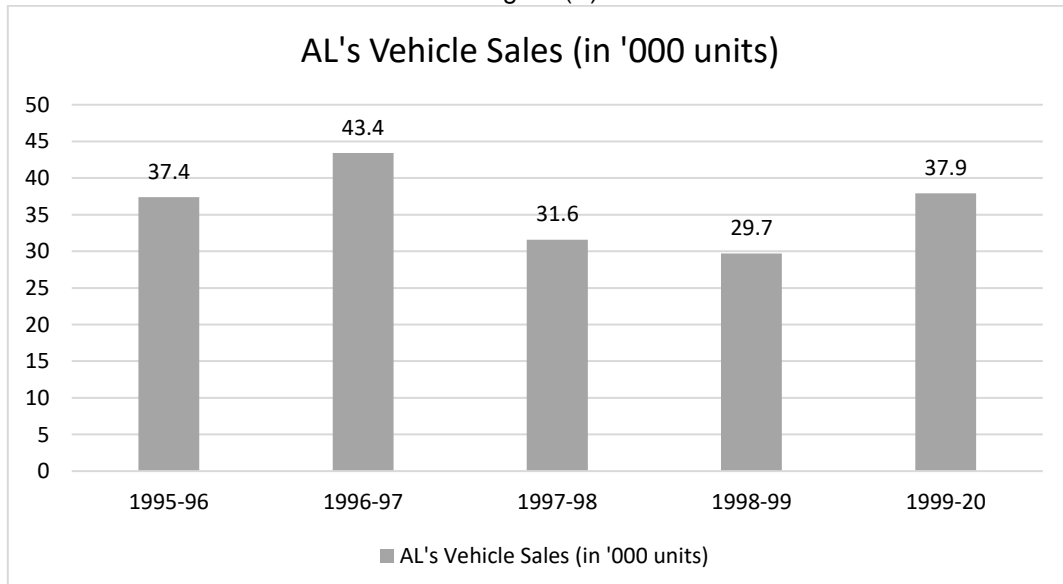


Figure (B)

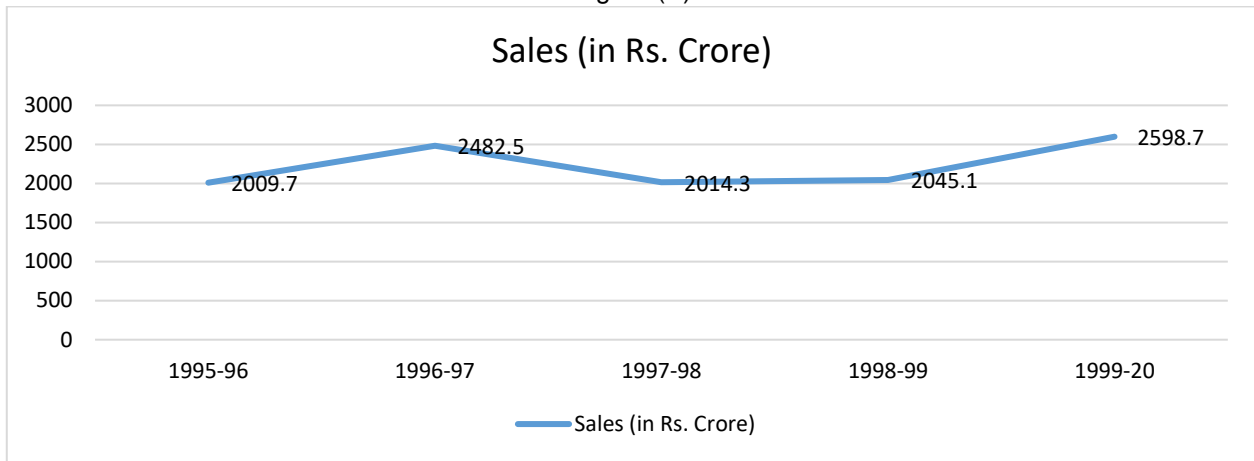
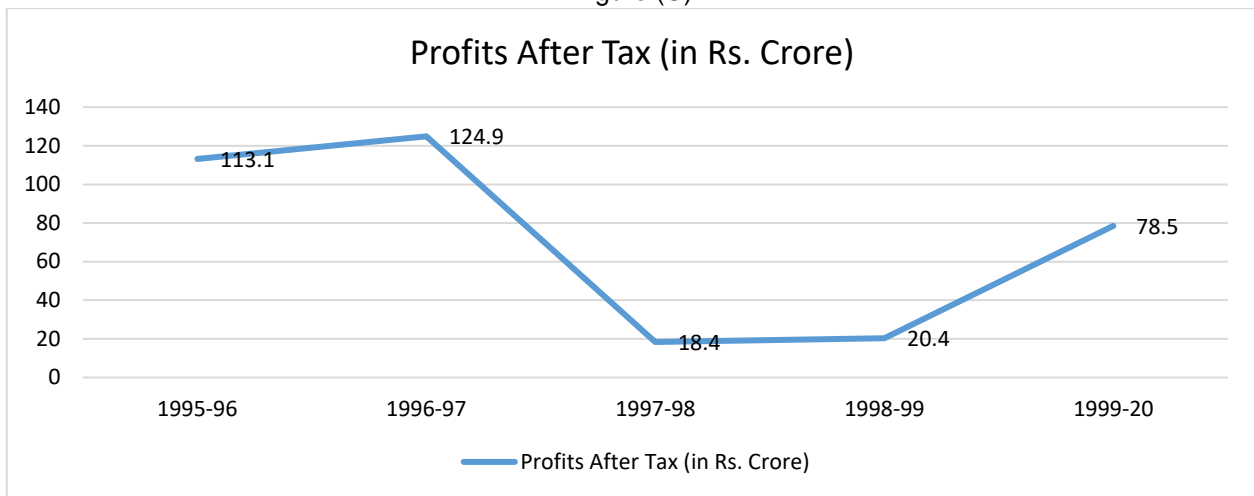


Figure (C)



5. It can be inferred that the price per vehicle between 1997-98 to 1998-99 has:
  - a) Risen
  - b) Dropped
  - c) Remained constant
  - d) No inference can be made
6. With respect to the price per vehicle, what inference can be made about the price between 1998-99 to 1999-20 It has
  - a) Risen
  - b) Dropped
  - c) Remained constant
  - d) No inference can be made
7. The highest percentage change in profit is seen for the year:
  - a) 1997-98
  - b) 1998-99
  - c) 1996-97
  - d) 1999-20
8. Vehicle sales have been closest to the average sales of the five-year period for the year:
  - a) 1995-96
  - b) 1997-98
  - c) 1998-99
  - d) 1999-20

**Direction: Study the following tables and answer the question**

Table – I

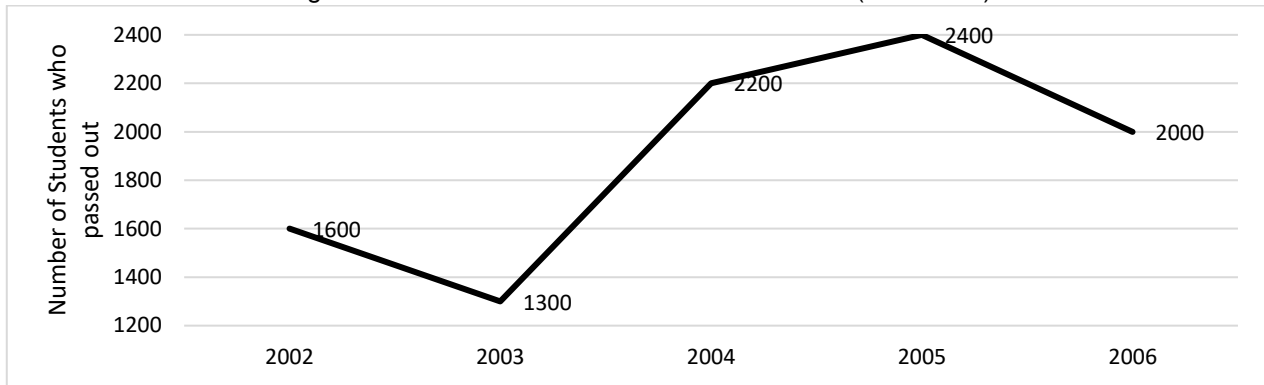
Percentage of students in IIMs, who sought Employment in the Areas of Finance, Marketing and Systems

	Finance	Marketing	Systems	Others
2002	24	35	16	25
2003	19	47	21	13
2004	25	42	18	15
2005	17	38	19	26
2006	30	33	21	16

Table – II (Average Monthly Salary)

	Finance	Marketing	Systems
2002	254000	22800	28200
2003	26300	26400	27100
2004	29400	28300	31200
2005	32300	31200	33100
2006	36400	44300	37400

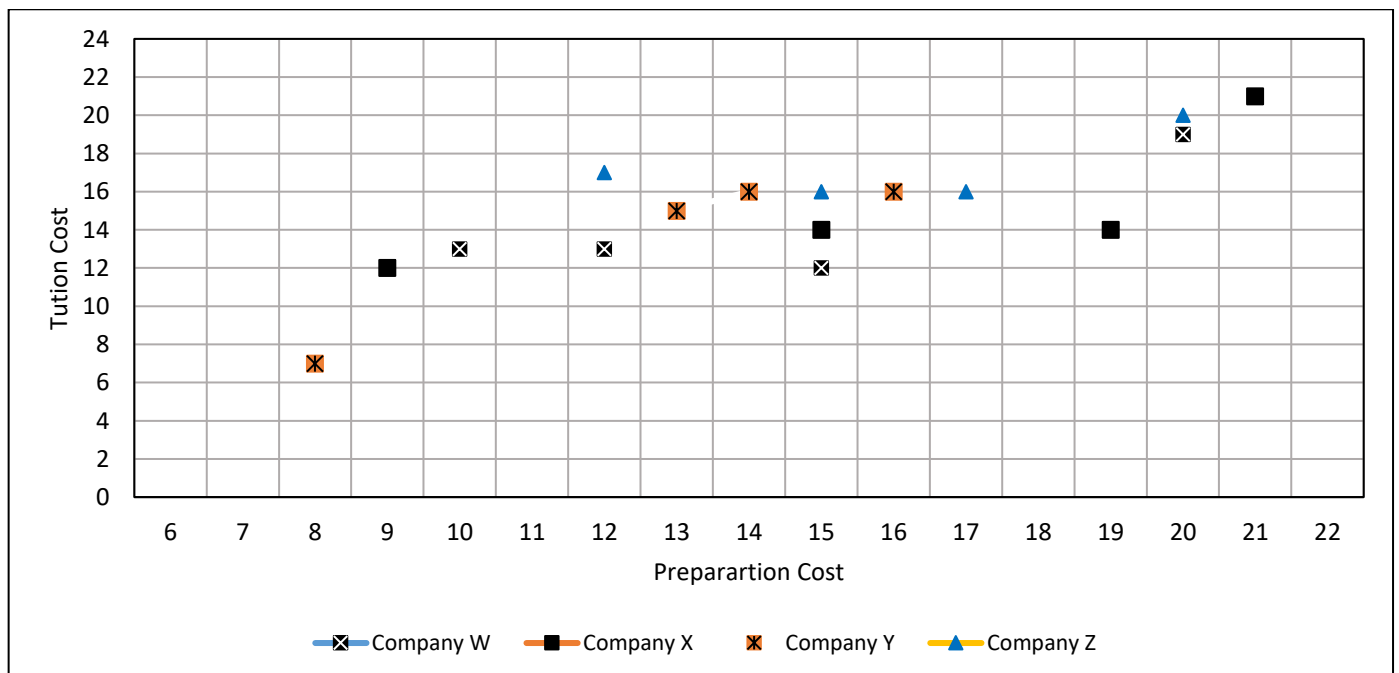
Fig 1: Number of students Passed in Each Year (2002 – 06)



9. The number of students who got jobs in marketing is more than the number of students getting finance jobs, in the 5 years, by:  
 (a) 1652 (b) 1448 (c) 1500 (d) None of these.
10. What is the approx. percentage increase in the average salary of finance from 2002 to 2006?  
 (a) 43 (b) 52% (c) 64% (d) None of these.
11. The average annual rate at which the initial salary offered in systems increases is closest to:  
 (a) 7% (b) 10% (c) 14% (d) 5%
12. What is the average monthly salary to a management graduate in 2004?  
 (a) Rs 29,870 (b) Rs 30,200 (c) Rs 29,800 (d) Cannot be determined.
13. In 2005, students seeking jobs in systems earned more than those opting for finance (per annum) by:  
 (a) Rs 224.82 lakh (b) Rs 229.82 lakh (c) Rs 256.8 lakh (d) Cannot be determined

**Directions for Questions:** Answer the following questions on the basis of the data and the line chart given below:

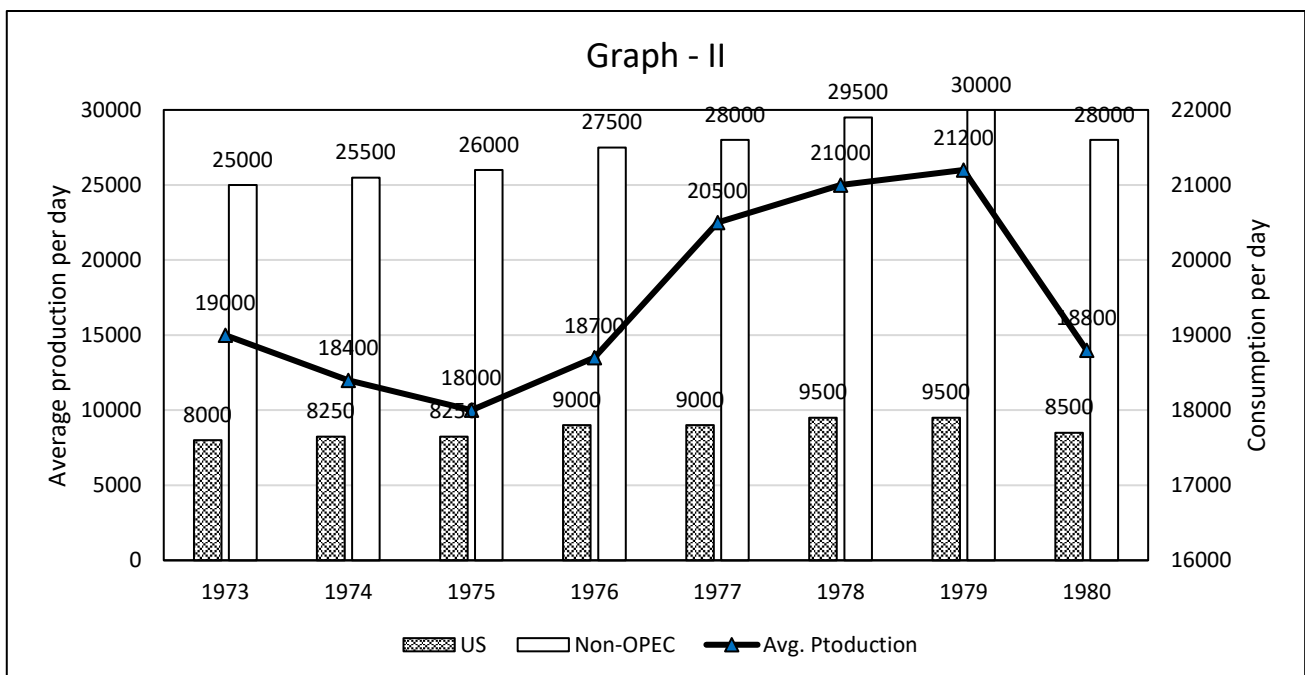
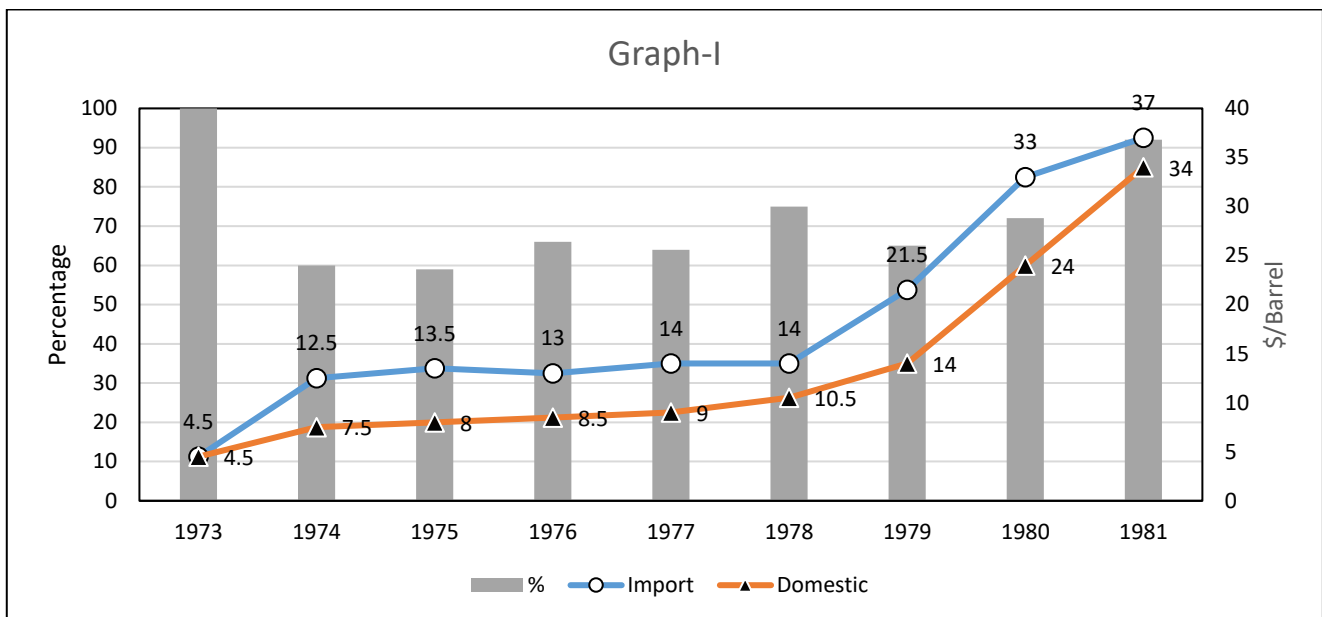
There are four reputed coaching institutes of India that offer preparation classes for various MBA examinations. For each of these four institutes W, X, Y, and Z, the following line graph gives the cost incurred by the institute (Preparation cost) in the study material that they provide to each of their students in Rs. With respect to the fees that they take from each student in Rs (Tuition cost). The study material provided by each of these four institutes is in four subjects, i.e. Quant (E), English (F), Reasoning (G), and Data Interpretation (H) respectively. For each of the four study materials, the preparation cost is in ascending order.



14. In which of the following ratios should coaching W prepare the units of products E, F, G, and H to make an overall profit? Assume the number of units prepared to be equal to the number of units sold to the students for each product  
 (a) 3:1:5:7 (b) 5:6:8:2 (c) 1:2:3:4 (d) 2:5:6:7 (e) 2:1:1:2

15. The company X prepared and sold 10, 20, 30, and 40 units of the respective products E, F, G, and H in some random order then its maximum overall profit could be?  
 (a) Rs. 40 (b) Rs. 45 (c) Rs. 50 (d) Rs. 35 (e) Rs. 60
16. The difference between the total number of profit making products and the total number of products that incur a loss to the coaching institutes is  
 (a) 5 (b) 4 (c) 3 (d) 2 (e) 1
17. If coaching Y sold a total of 100 units of all the products combined, it suffered a loss of Rs.20. Which of the following could have been the total number of units of products F and G sold by company Y?  
 (a) 25 (b) 30 (c) 35 (d) 40 (e) None of these

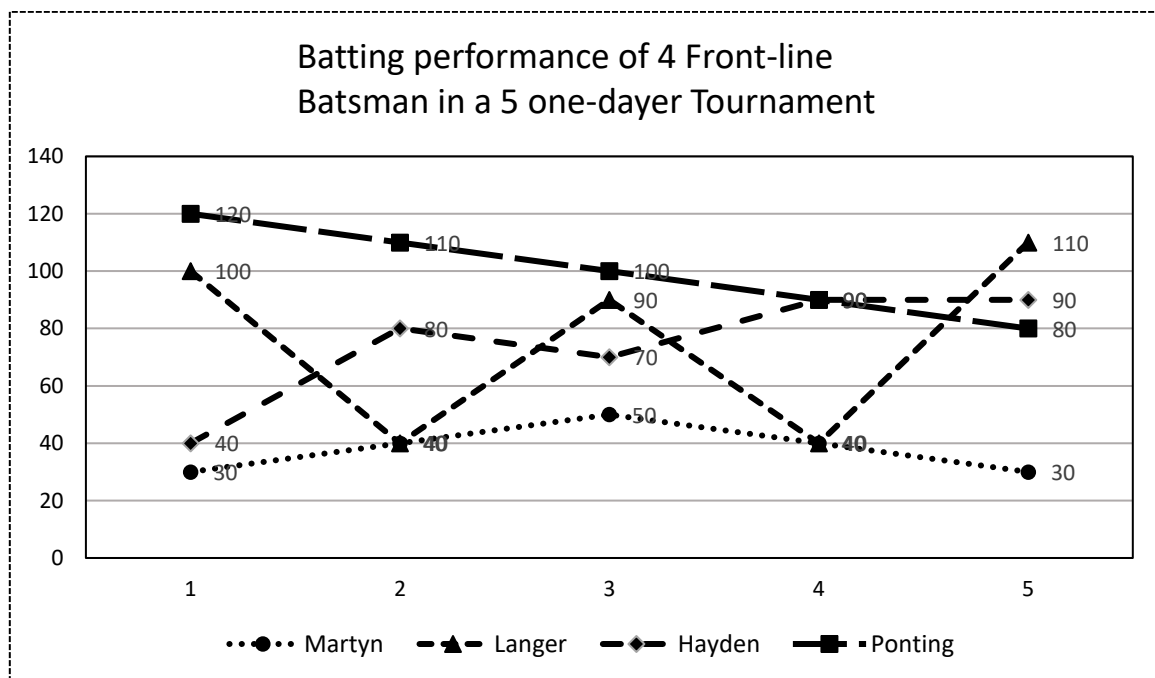
**Directions for questions:** Refer to the following information on prices and production of crude oil for the period 1973-80 and answer the questions given below. In the first graph, the lines show the prices of crude oil per barrel for domestic production and imports while the bars show the domestic price as a percentage of the import price. In the second graph, the bars show average production of barrels per day in the US and Non-OPEC countries, while the line shows the consumption of oil in the US.



18. In 1979, if the US imported crude oil in order to meet demands, what is the total cost of imported crude oil?  
 a) USD 455,800/day b) USD 296,800/day c) USD 376,300/day d) USD 251,550/day

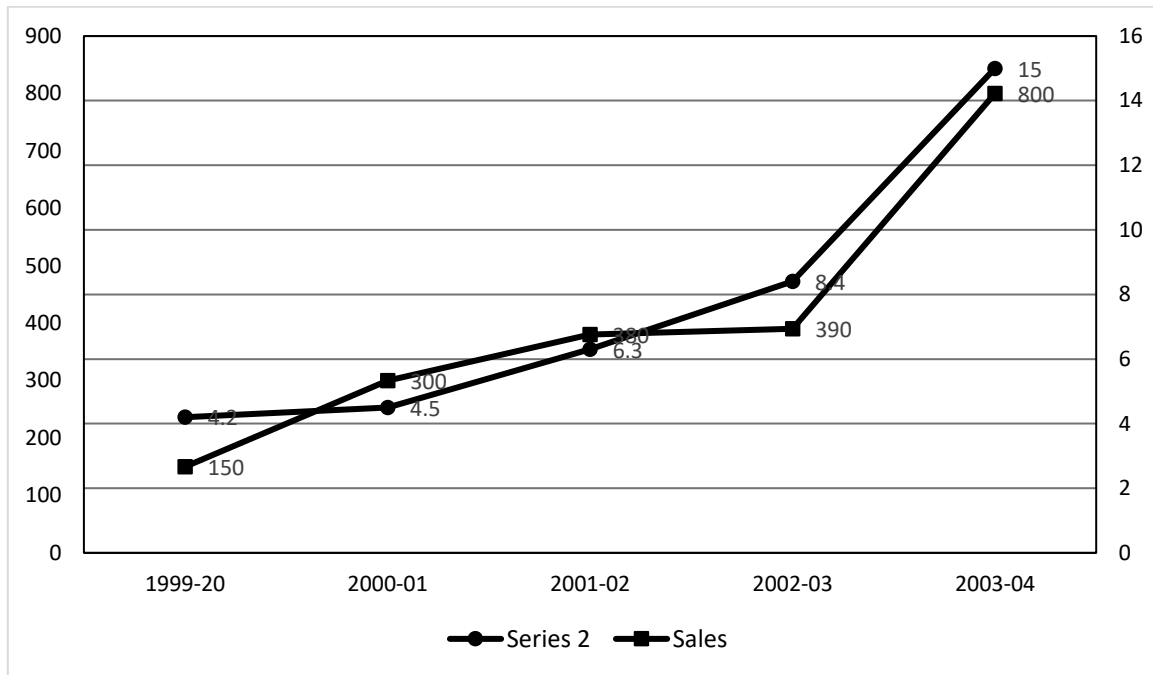
19. What is the difference between the total cost of domestic production of crude oil in the US in 1975 and the total cost of crude oil imported by the US in order to meet demands in this year?  
a) USD 49,500/day      b) USD 96,750/day      c) USD 53,625/day      d) USD 65,625/day
20. Which of the following statements is/are true?  
I. The percentage change in the price of imported crude oil in 1974 is approximately 120%.  
II. In 1977, the absolute difference between the percentage change in the price of domestic oil and the percentage change in the price of imported oil is approximately 2.  
III. The percentage change in the consumption of oil by the US from 1973 to 1979 is -80%.  
IV. In 1977, the ratio of production of oil by non-OPEC countries to that by the US is 4.25.  
a) I only      b) II only      c) III only      d) II and III
21. What is the difference between the percentage change in the price of imported oil and the price of domestic oil in 1976?  
a) 2.55      b) -9.95      c) -19      d) 1.25

**Direction:** The following line graph shows the batting performance of 4 front-line batsmen in a 5 one-dayer tournament (all runs scored were multiples of 10). Study the graph and answer the questions.



22. Which one-dayer saw the lowest batting average?  
a) 1      b) 3      c) 4      d) 5
23. What is the difference between Hayden's and Martyn's batting average for the tournament? (Assume all innings shown were completed innings)  
a) 36      b) 40      c) 45      d) 30
24. In how many matches was Ponting the third highest scorer (amongst the 4 batsmen):  
a) 1      b) 2      c) 3      d) 4
25. To equal Ponting's 5-match average, Martyn should have scored how many runs in the last match?  
a) 180      b) 310      c) 340      d) 290
26. Which of the four are the top two ranked batsman? (Based on average in the tournament)  
a) Ponting & Hayden      b) Langer & Hayden  
c) Ponting & Langer      d) None of these

**Direction:** The below line graph represents sales and profit in Rs. Crore of Dataman Ltd for the five years from 1999-00 to 2003-04. During this period, sales increased from Rs. 150 crore to Rs. 800 crore. Correspondingly, the net profit increased from Rs. 4.2 crore to Rs. 15 crore. Net profit is defined as the excess of sales over total costs.



27. The highest percentage of growth in sales, relative to the previous year, occurred in:  
 (a) 2000-01 (b) 2001-02 (c) 2002-03 (d) 2003-04
28. The highest percentage growth in net profit, relative to the previous year, was achieved in:  
 (a) 2000-01 (b) 2001-02 (c) 2002-03 (d) 2003-04
29. Defining profitability as the ratio of net profit to sales Dataman Ltd, recorded the highest profitability in:  
 (a) 1999-2000 (b) 2001-02 (c) 2002- 03 (d) 2003-04
30. With profitability as defined in question 39 above, can he concluded that:  
 (a) Profitability is non-decreasing during the tin years from 1999-2000 to 2003- 0d)  
 (b) Profitability is non-increasing during the five years from 1999- 2000 to 2003-0d)  
 (c) Profitability remained constant during the five years from 1999-2000 to 2003-0d)  
 (d) None of the above.

### Answer Key

1. B	2. C	3. B	4. D	5. A	6. B	7. D	8. A	9. D	10. A
11. A	12. D	13. B	14. E	15. C	16. E	17. A	18. D	19. D	20. B
21. B	22. C	23. A	24. A	25. C	26. C	27. D	28. D	29. A	30. D