



University of Engineering & Management, Kolkata
End Semester Examination, February 2021
Course: B.Tech(All) Semester: 1st

Paper Name: Skill Development for Professionals – I
Paper Code: HSMC102

Full Marks: 100

Time: 3 hours

Attempt all the questions (Marks-50×2)

Directions (1-15): Find out if each of the following sentences has an error. If the sentence is free from error, your answer will be ‘No correction required’. Justify your answer

1. In spite of the doctor’s stern warning Latika continued taking sugars in her milk.
2. Ritika decided to get up early to wear a nice dress and visit her aunt.
3. The student asked me if I knew that Kalidas was the greater than any other poet .
4. If it would rains, they will not come.
5. Myself and Roshni will take care of the event on Sunday.
6. Little knowledge of playing volleyball that she possessed proved to be helpful at the time of inaugural match.
7. Me and my wife were at home last night.
8. Essay writing is an art that requires many planning on the part of the writer.
9. I used a pair of black trousers for a week.
10. He has made a mistake of which I am certain.
11. He was not allowed for the teacher to read in a low voice.
12. The tour of the campus was so good.
13. He is a saint and as such must be respected.
14. Neither the Captain nor his men are afraid of fighting.
15. Each child was given a red beautiful balloon.

Directions (16-19): Rearrange the following five sentences (A), (B), (C), (D) and in the proper sequence to form a meaningful paragraph and then answer the questions given below.

A: Once the formalities are done, you can start using your account and save time and money.

- B: Opening a bank account can seem intimidating.
 C: Getting your account opened is just a matter of providing certain details and funding your account.
 D: Fortunately, most banks follow a standardized process.

16. Which of the following will be the **FOURTH** sentence after the rearrangement?
 17. Which of the following will be the **SECOND** sentence after the rearrangement?
 18. Which of the following will be the **THIRD** sentence after the rearrangement?
 19. Which of the following will be the **FIRST** sentence after the rearrangement?

Direction (20-25): Fill in the blank with appropriate preposition from the options given within brackets. (left, has escaped, she lives, were sleeping ,are to be ranked ,had, has, she lived, slept, had escaped) and justify your answer.

20. Only one of the boys.....not done the home-work given yesterday.
 21. When the thief entered the house, the inmates in the hall.
 22. The thief explained how hefrom the jail.
 23. Madhu has not been able to recall where.....
 24. When he died, Ramanujan.....behind three notebooks.
 25. All the applicants..... and the results will be announced next week.

Directions (26 – 30): Study the following table chart carefully and answer the questions given beside. The chart shows the number of employees in various department in 5 companies.

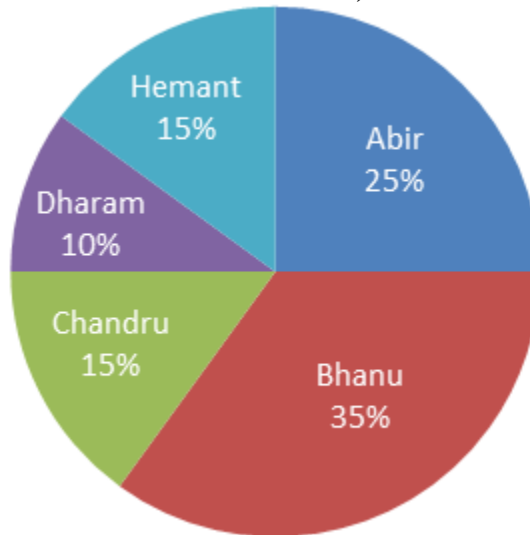
Departments	ABC Group	JMD	BCGI	Younker	Zelman
TECHNICAL	200	350	270	70	120
OPERATIONS	175	200	150	340	180
H.R	50	30	25	35	20
FINANCE	300	50	120	100	75

26. Find the ratio of employees of Technical, Operations and Finance between BCGI and Younker companies.?
 27. What percentage of total employees are in Operations department for all companies?
 28. Find the average number of employees from the Technical department hired by all companies taken together.?
 29. What is the percentage of technical and operations employees in BCGI as compared to operations and H.R employees in Younker?
 30. What is the percentage of H.R employees in Zelman?

Directions(31 -35) : Study the following pie chart carefully and answer the questions given beside.

Pie-chart given below shows investment (in terms of percentage) out of total investment of five different persons.

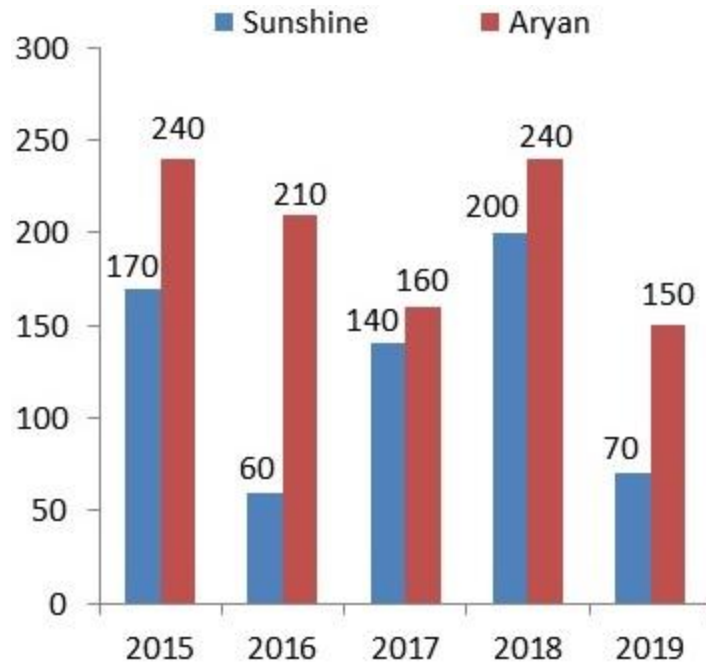
Total Investment = Rs. 160,000



- 31.** Bhanu and Hemant started a business together. Bhanu left the business 9 months after starting of business but Hemant continued for the entire year. Find the difference between profit shares of Bhanu and Hemant if total profit at the end of the year is Rs. 15400?
- 32.** Abir and Dharam started a business together but after 6 months Abir is replaced by Hemant. Dharam left the business 2 months after Abir while Hemant worked for total 'x' months. Out of total profit of Rs. 13050, Abir got Rs. 6750, and then find the value of 'x'?
- 33.** Abir, Sanjay and Chandru started a business together. Sanjay invested Rs. 4000 more than amount invested by Chandru. Sanjay left the business after 6 months of starting of business. After 2 months more, Chandru left the business. Out of the annual profit if Abir and Chandru together got Rs. 8736, then find total annual profit ?
- 34.** Find the average of the investment of Abir, Bhanu, Dharam and Hemant together?
- 35.** The investment of Chandru is how much percent more/less than the investment of Dharam?

Directions (36-40) : Study the following bar chart carefully and answer the questions given beside.

In the bar chart, total numbers of students enrolled in different years from 2015 to 2019 in Sunshine and Aryan Summer camps are given.



36. If in the year 2020 there is 30% increase in total number of students enrolled as compared to 2019, find the total number of students enrolled in 2020?

37. What is the ratio between total students in 2016 to the total students in 2019 of both summer camps?

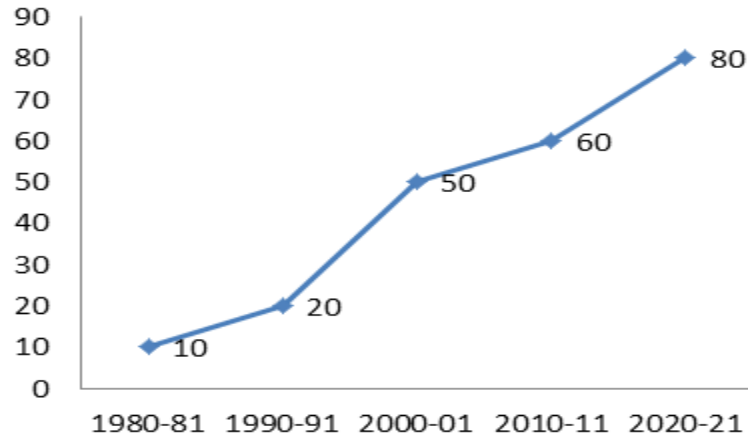
38. The number of students of Sunshine in 2015 is what percentage of the number of students of Aryan in 2017?

39. The total number of students enrolled in Sunshine from 2016 to 2019 is what percentage more than the total number of students enrolled in Aryan in 2018 and 2019?

40. Total students enrolled in Aryan in 2018 and 2019 together is what percentage more than students enrolled in Sunshine in 2015 and 2019 together?

Directions (41-45) : Study the following line chart carefully and answer the questions given beside.

The following line-graph represents the number of branches of public sector banks in India in different years:(in thousand).



41. Find the percentage increase in the number of branches from 1980-81 to 2010-11.?
42. If the total number of public sectors banks in 1980-81 and 2020-21 were 14 and 28 respectively, then find the ratio of average branches per bank in these two years.?
43. There is a proposal to merge SBI and its associate banks in 2020-21 due to which the total number of branches will decrease by 5000. After this SBI has 40% of total branches. Find the percentage change in the total branches of SBI and its associate banks before and after merging.?
44. If 40% of the total branches are in rural areas in 1990-91 and 40% of the total branches are in urban areas in 2020-21, then find the increase in the number of rural branches in these two years. ?
45. If there were 10000 branches less in 2000-01, then between which two decades, is the growth rate in number of branches the lowest?

Directions(46-50): Study the following table carefully to answer the questions that follow:

Number of Salesmen (in thousand) who joined five different companies during six different years

Year	Company				
	Flipkart	Snapdeal	Shopclues	Voonik	Askme
2010	2.4	4.2	0.6	1.7	4.6
2011	1.7	5.1	0.9	2.9	4.1
2012	3.9	7.7	1.2	1.3	4.7
2013	3.4	5.1	1.8	4.7	5.2
2014	4.3	6.5	2.9	5.5	6.4
2015	5.7	7.9	3.5	3.7	6.1

46. The total number of salesmen joining Ask me in the year 2010, 2011 and 2012 together was approximately what per cent of the total number of Salesmen joining Shopclues over all the years together?

47.What was the ratio of the number of salesmen joining Snapdeal in the year 2013 to the number of salesmen joining Voonik in the year 2010?

48.What is the difference between total number of salesmen joining Flipkart in the year 2010, 2011 and 2014 together and the number salesmen joining Snapdeal in the year 2014?

49.In which company has the number of joining Salesmen continuously increased during the year 2010 to 2015?

50.What was the ratio of the number of salesmen joining Shopclues in the year 2013 to the number of salesmen joining Voonik in the year 2010.
