



Direction: The rock band, aero smith, during one of its itineraries of India, staged exactly 5 concerts, one in each of the 5 major cities – Delhi, Mumbai, Calcutta, Hyderabad and Chennai. In each of the concerts, they performed all their biggest hits no. – livin on the edge, falling in love, walk this way, taste of India and love in elevator. Though they perform the same 5 nos. in each of the 5 concerts, no number was performed in the same position (i.e. first, second, third, fourth and fifth) at any two concerts. The following information is also known about the concerts.

- 1- Taste of India was performed as the third no. in the Hyderabad and as the fourth no. in Delhi.
- 2- In all the cities, except Chennai, falling in love was performed before love in elevator.
- 3- In Calcutta, livin on the edge was performed as the third no. where as Taste of India was performed before livin on the edge.
- Which of following was performed as the 1st no. in Mumbai?

 a) falling in love
 b) walk this way
 c) love in an elevator
 d) CBD

 In how many of the concerts were walking this way performed before fall in love?
- a) 1
 b) 2
 c) 3
 d) CBD

 3. In which city was livin on the edge performed as the 5th no.

 a) Delhi
 b) Mumbai
 c) Hyderabad
 d) CBD
- 4. In how many of the concerts was love in an elevator performed immediately after taste of India?

c) 2

5. In which city was walk this way performed as the 2nd no.?a) Calcuttab) Mumbaic) Delhid) CBD

b) 1

a) 0

Direction: The horizontal bars in the above diagram represent 2020 aggregate sales (in ₹ million) of a company for the different subcategories of its products. The top four product subcategories (Bookcases, Chairs, Furnishings, Tables) belong to furniture product category; the bottom four product subcategories (Accessories, Copiers, Machines, Phones) belong to the technology product category while all other product subcategories belong to the office supply product category. For each of the product subcategories, there is a vertical line indicating the sales of the corresponding subcategory in 2019.

d) CBD



- 6. The total sales (in ₹ million) in 2019 from products in office supplies category is closest to a) 18.0
 b) 13.5
 c) 16.5
 d) 12.5
- 7. The percentage increase in sales in Furniture category from 2019 to 2020 is closest to a) 25% b) 1% c) 8% d) 20%



- How many subcategories had sales of ₹ 4 million or more in 2019 and registered an increase in sales in excess of 8 25% in 2020?
- 9. The improvement index for a category is the maximum percentage increase in sales from 2019 to 2020 among any of its subcategories. The correct order of categories in increasing order of this improvement index is a) furniture, technology, office supply
 - b) technology, furniture, office supply
 - c) office supply, furniture, technology
 - d) office supply, technology, furniture

Direction:



The different bars in the diagram above provide information about different orders in various categories (Art, Binders,) that were booked in the first two weeks of September of a store for one client. The colour and pattern of a bar denotes the ship mode (First Class / Second Class / Standard Class). The left end point of a bar indicates the booking day of the order, while the right end point indicates the dispatch day of the order. The difference between the dispatch day and the booking day (measured in terms of the number of days) is called the processing time of the order. For the same category, an order is considered for booking only after the previous order of the same category is dispatched. No two consecutive orders of the same category had identical ship mode during this period.

For example, there were only two orders in the furnishing category during this period. The first one was shipped in the Second Class. It was booked on Sep 1 and dispatched on Sep 5. The second order was shipped in the Standard class. It was booked on Sep 5 (although the order might have been placed before that) and dispatched on Sep 12. So the processing times were 4 and 7 days respectively for these orders.

- 10. How many days between Sep 1 and Sep 14 (both inclusive) had no booking from this client considering all the above categories?
- 11. What was the average processing time of all orders in the categories which had only one type of ship mode?
- 12. The sequence of categories -- Art, Binders, Paper and Phones -- in decreasing order of average processing time of their orders in this period is:
 - a) Phones, Art, Binders, Paper
 - b) Phones, Binders, Art, Paper
 - c) Art, Binders, Paper, Phones
 - d) Paper, Binders, Art, Phones
- 13. Approximately what percentage of orders had a processing time of one day during the period Sep 1 to Sep 22 (both dates inclusive)? c) 16%
 - b) 20% a) 25%

d) 22%



Comprehension:



The figure above shows the schedule of four employees – Abani, Bahni, Danni and Tinni – whom Dhoni supervised in 2020. Altogether there were five projects which started and concluded in 2020 in which they were involved. For each of these projects and for each employee, the starting day was at the beginning of a month and the concluding day was the end of a month, and these are indicated by the left and right end points of the corresponding horizontal bars. The number within each bar indicates the percentage of assigned work completed by the employee for that project, as assessed by Dhoni.

For each employee, his/her total project-month (in 2020) is the sum of the number of months (s)he worked across the five project, while his/her annual completion index is the weightage average of the completion percentage assigned from the different projects, with the weights being the corresponding number of months (s)he worked in these projects. For each project, the total employee-month is the sum of the number of months four employees worked in this project, while its completion index is the weightage average of the completion percentage assigned for the employees who worked in this project, with the weights being the corresponding number of months they worked in this project.

- 14. Which of the following statements is/are true?
 - I: The total project-month was the same for the four employees.
 - II: The total employee-month was the same for the five projects.
 - a) Only I b) Only II c) Both I and II d) Neither I nor II
- 15. Which employees did not work in multiple projects for any of the months in 2020?
 - a) Only Abani, Bahni and Danni
 - b) Only Abani and Bahni
 - c) Only Tinni
 - d) All four of them
- 16. The project duration, measured in terms of the number of months, is the time during which at least one employee worked in the project. Which of the following pairs of the projects had the same duration?a) Project 1, Project 5b) Project 5
 - a) Floject 1, Floject 5 b) Floject 3, Flo c) Project 3, Project 4 broject 4, Project 4,
 - c) Project 3, Project 4 d) Project 4, Project 5
- 17. The list of employees in decreasing order of annual completion index is:
 - a) Danni, Tinni, Abani, Bahni b) Bahn
 - b) Bahni, Abani, Tinni, Danni d) Tinni, Danni, Abani, Bahni
 - c) Danni, Tinni, Bahni, Abani d) Tinni, Danni



Direction: Prof. Singh has been tracking the number of visitors to his homepage. His service provider has provided him with the following data on the country of origin of the visitors and the university they belong to:

Number of visitors

DAY COUNTRY 3 1 2 2 0 Canada 0 Netherlands 0 1 1 India 1 2 0 2 2 JK 0 USA 1 0 1

	DAY		
UNIVERSITY	1	2	3
University 1	1	0	0
University 2	2	0	0
University 3	0	1	0
University 4	0	0	2
University 5	1	0	0
University 6	1	0	1
University 7	2	0	0
University 8	0	2	0

Number of visitors

18. University 1 can belong to _____ a) UK b) Canada

c) Netherlands d) USA

19. To which country does University 5 belong?a) India or Netherlands but not USAb) India or USA but not Netherlands

c) Netherlands or USA but not India

d) India or USA but not UK

- 20. Visitors from how many universities from UK visited Prof. Singh's homepage in the three days? a) 1 b) 2 c) 3 d) 4
- 21. Which among the listed countries can possibly host three of the eight listed universities? a) None b) Only UK c) Only India d) Both India and UK