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CDC 03 2022 DILR

Scorecard (procreview.jsp?sid=aaaN5tjtX0b7WgArBjowySun Jan 08 23:58:03 IST 2023&qsetId=ijtRvmTnjGU=&qsetName=CDC 03 2022 DILR)

Accuracy (AccSelectGraph.jsp?sid=aaaN5tjtX0b7WgArBjowySun Jan 08 23:58:03 IST 2023&qsetId=ijtRvmTnjGU=&qsetName=CDC 03 2022 DILR)

Qs Analysis (QsAnalysis.jsp?sid=aaaN5tjtX0b7WgArBjowySun Jan 08 23:58:03 IST 2023&qsetId=ijtRvmTnjGU=&qsetName=CDC 03 2022 DILR)

Video Attempt / Solution (VideoAnalysis.jsp?sid=aaaN5tjtX0b7WgArBjowySun Jan 08 23:58:03 IST 2023&qsetId=ijtRvmTnjGU=&qsetName=CDC 03 2022 DILR)

Solutions (Solution.jsp?sid=aaaN5tjtX0b7WgArBjowySun Jan 08 23:58:03 IST 2023&qsetId=ijtRvmTnjGU=&qsetName=CDC 03 2022 DILR)

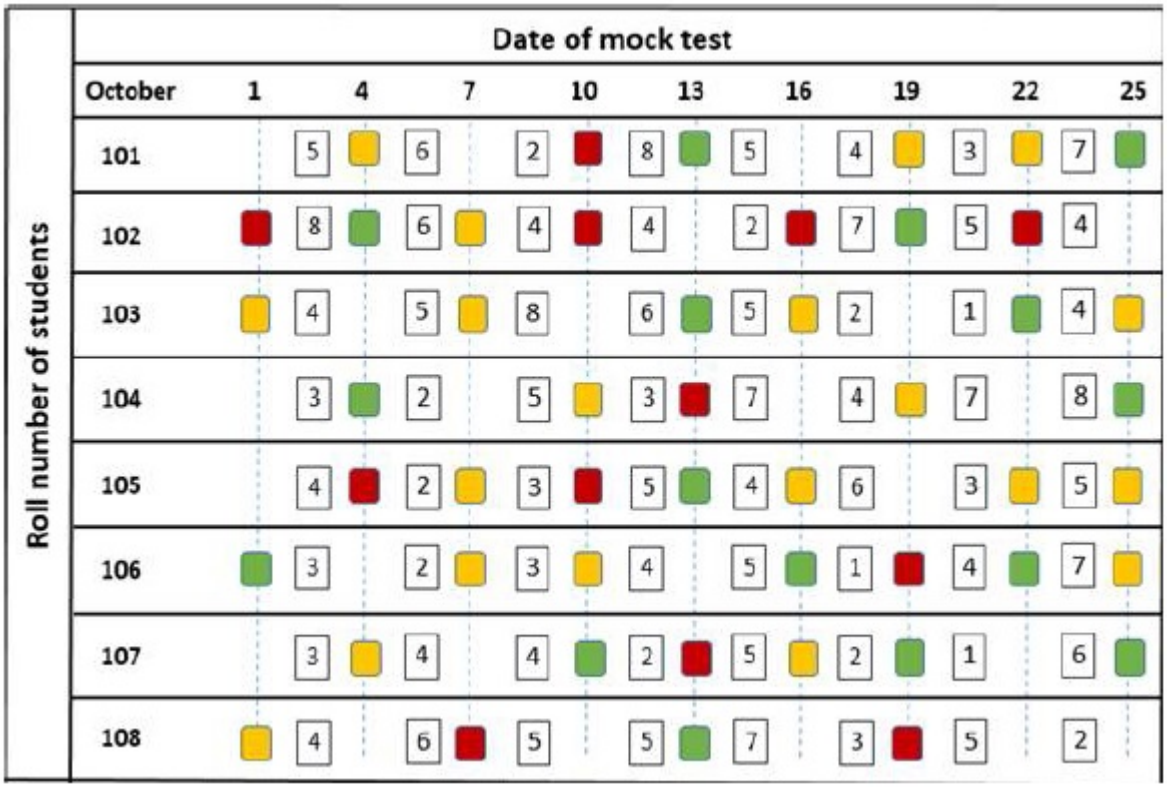
Bookmarks (Bookmarks.jsp?sid=aaaN5tjtX0b7WgArBjowySun Jan 08 23:58:03 IST 2023&qsetId=ijtRvmTnjGU=&qsetName=CDC 03 2022 DILR)

Section-1

Sec 1

Directions for questions 1 to 4: Answer the questions on the basis of the information given below.

The CAT mock scores of 8 students (roll number 101 to 108) from a batch at ABC Limited were collected and organized in the form of a chart given below. One mock was held every third day (From October 1st to 25th). Their performance was marked 'Good' (coloured in green) or 'Average' (coloured in yellow) or 'Poor' (marked in red). The points awarded for each Good, Average, and Poor performance were 3, 2, and 1 point respectively. The students also shared the number of hours they studied between any two scheduled mocks. Those values are given in a box between the vertical lines that mark the organization of each mock exam. Many students did not give certain mocks but continued to study for the exam. For example, roll number 101 did not give the mock on 1st October; studied for 5 hours between the 1st and the 2nd mock; gave the 2nd mock on 4th October; studied for another 6 hours till October 7 but didn't give the mock on 7th October.



For these students, the consistency of their performances was understood by the 'Fluctuation' point in their performances. The absolute difference in ratings between two successive mock attempts is termed as *Fluctuation*. For example, for student 101, fluctuation between the mock on 4th October and 10th October is 1 point as the performance rating changed from Average (2 points) to Poor (1 point). For the same student, the fluctuation for the next mock attempt (given on 13th vs that on 10th October) is 2 points as the performance changed from Poor (1 point) on 10th to Good (3 point) on 13th.

Q.1 [11831809]

If only a span of 10 days (4 successive scheduled mocks in any set of 10 consecutive days) is considered, what is the maximum sum of fluctuation points for any of the 8 students, taking the first mock attempted in this period as the base?

1 ○ 3

2 ◯ 4

3 ◯ 6

4 ◯ 5

Answer key/Solution

Solution:
Correct Answer : 4
For this question, 3 consecutive mocks across a 10-day period can mean a maximum fluctuation of 4 points. This can happen with a 2-point fluctuation from Poor to Good performance from the 1st to the 2nd mock of this 10-day period, and another 2 points from Good to Poor performance from the 2nd to the 3rd mock. The reverse i.e., Good to Poor, and then Poor to Good, will also result in a fluctuation of 4 points.
A higher fluctuation can only result if all 4 mocks conducted in a 10-day period are given. Since the question has asked for the highest possible fluctuation, it makes sense to look across the row for each student's performance and focus on calculating the fluctuation for those who have given 4 consecutive mocks. Students 102, 105, 106, and 107 fall in that category. The fluctuation for student 106 in the last 4 mock attempts is 5 points, the highest.

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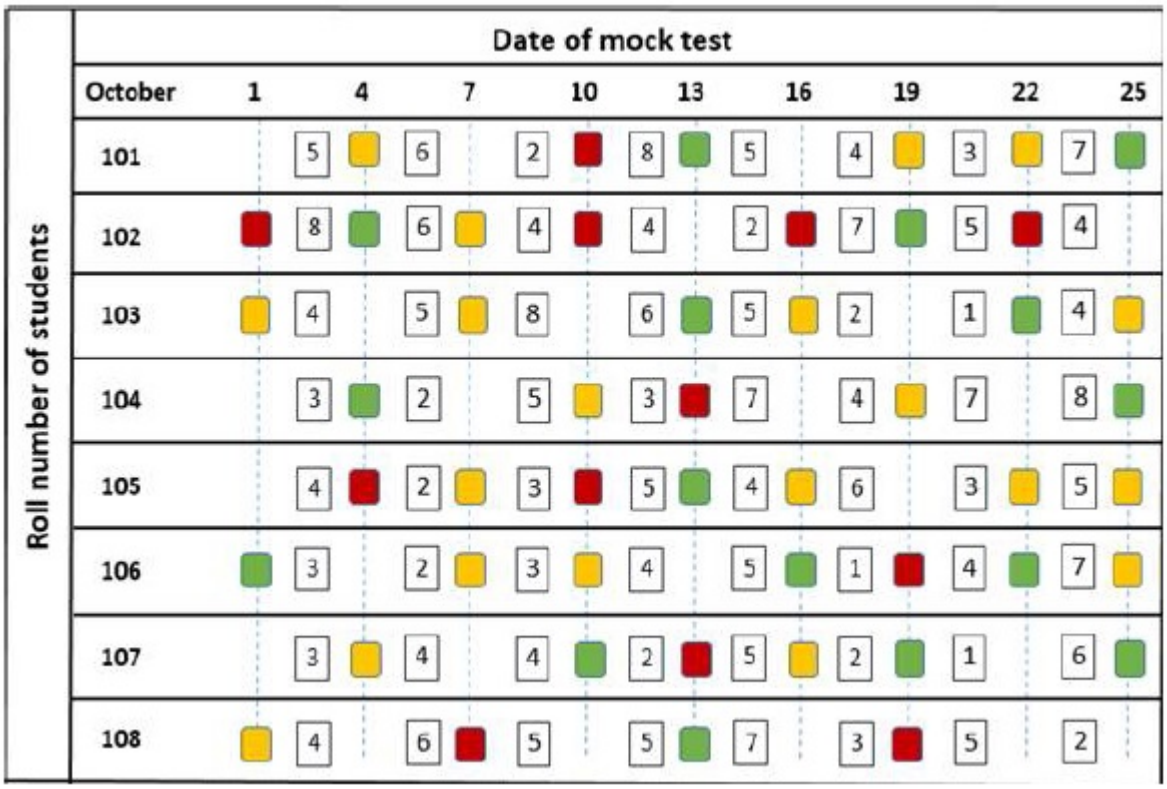

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Q.2 [11831809]

How many students received the same performance rating (from the three possible ratings) in more than 40% of their mock exam attempts? Only consider students who took at least 5 mocks.

Solution:
Correct Answer : 6
The only students who don't satisfy the condition given in the question are students 104 and 108.

Answer key/Solution

Bookmark FeedBack

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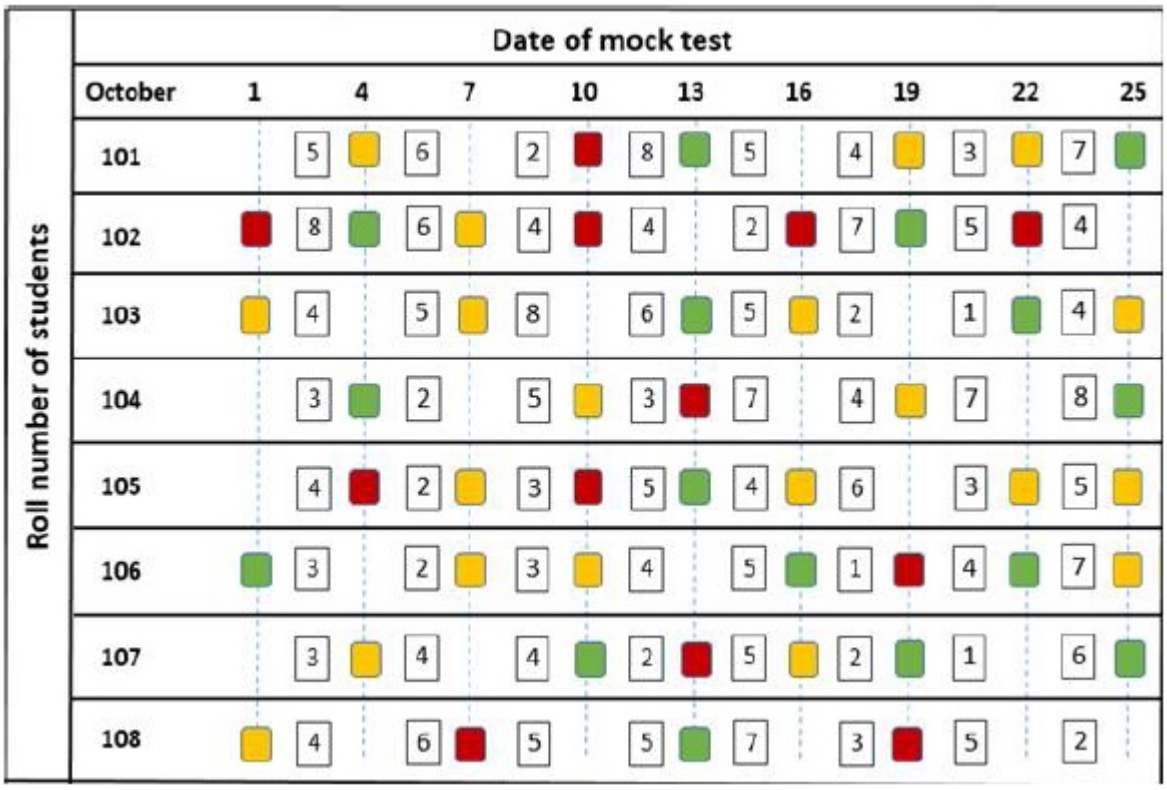

For these students, the consistency of their performances was understood by the 'Fluctuation' point in their performances. The absolute difference in ratings between two successive mock attempts is termed as *Fluctuation*. For example, for student 101, fluctuation between the mock on 4th October and 10th October is 1 point as the performance rating changed from Average (2 points) to Poor (1 point). For the same student, the fluctuation for the next mock attempt (given on 13th vs that on 10th October) is 2 points as the performance changed from Poor (1 point) on 10th to Good (3 point) on 13th.

Q.3 [11831809]

Considering only a span of 13 days (5 successive scheduled mocks), which student had the highest ratio of the sum of ratings received from mocks to the number of hours studied in this period? (If a mock is missed in this span, rating considered will be 0 points but the number of hours will be considered in the total calculation.)

1 ◯ 101

2 ◯ 103

3 ◯ 106

4 ◯ 107

Answer key/Solution

Solution:
Correct Answer : 4
Let's check this using options.
For student 101, the highest ratio is from 13th to 25th October. Sum of ratings is 10 points and number of hours studied is 19. Ratio = 10/19 = 0.526 points
For student 103, the highest ratio is also from 13th to 25th October. Sum of ratings is 10 points and number of hours studied is 12. Ratio = 10/12 = 5/6 = 0.83 points
For student 106, the highest ratio is also from 13th to 25th October. Sum of ratings is 9 points and number of hours studied is 17. Ratio = 9/17 = 0.529 points
For student 107, the highest ratio is from 10th to 22nd October. Sum of ratings is 9 points and number of hours studied is 10. Ratio = 9/10 = 0.9 points, the highest.

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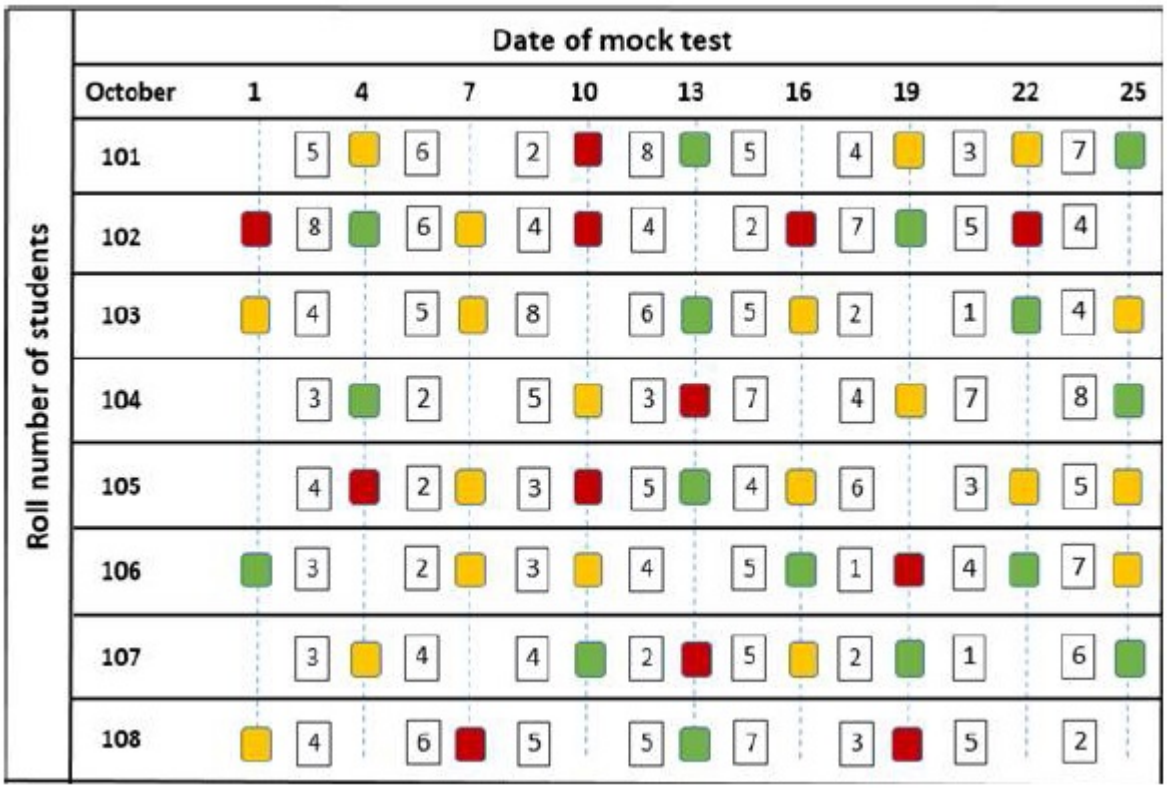

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Q.4 [11831809]

How many students had an average performance rating of at least 2 points from the mocks attempted?

Solution:
Correct Answer : 5
The only students who don't satisfy the condition given in the question are students 102, 105, and 108.
Hence, 5 students have at least 2 points as the average performance rating.

Answer key/Solution

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Directions for questions 5 to 10: Answer the questions on the basis of the information given below.

After the written test, Services Selection Board conducted interviews of five candidates - Ajay, Balwan, Kamba, Saurabh, and Vikram for the officer rank. The interview panel gave these candidates 1 to 10 integer marks each on five parameters - Tactfulness, Presence of Mind, Humor, Confidence, and Alertness. Each of the five candidates obtained different marks on five parameters.

The board reserves 5 additional marks for the candidates who were national level players and 3 additional marks were reserved for the candidates who had excellent academic record. No one got additional marks of both types.

The following additional facts are also known.
(i) On Alertness, all the 5 candidates got a total of 31 marks, and in this parameter four candidates got the same marks. Vikram scored more than other candidates in this parameter.
(ii) Everyone got 3 to 5 marks on Tactfulness. Unique maximum and minimum marks in this parameter were obtained by Ajay and Vikram respectively.
(iii) All the 5 candidates got different even integer marks in Presence of Mind. Similarly, all the 5 candidates got different odd integer marks in the Confidence.
(iv) Among the five candidates, Balwan got the highest marks on Presence of Mind, and Kamba got the highest marks on Confidence.
(v) If candidates are ranked on the basis of marks obtained in individual parameters, Ajay's rank on the basis of Presence of Mind is same as Confidence. Same is the case with Saurabh. Also, Saurabh got the lowest marks on Confidence.
(vi) Everyone got 4 to 7 marks in Humor. Also, Kamba got more marks than Saurabh in this parameter.

Q.5 [11831809]
How many marks obtained by Ajay on Confidence?

Solution:
Correct Answer : 3

Answer key/Solution

Step 1:
From condition (i), sum of marks on Alertness is 31 and marks of Vikram are more than that of Kamba. So the only possible combination is (6, 6, 6, 6, 7).
From condition (ii), on Tactfulness, Ajay and Vikram got 5 and 3 marks respectively. The other three candidates got 4-4 marks.
From condition (iii), on Presence of Mind, candidates got 2, 4, 6, 8 and 10 marks in any order. But each of the five candidates obtained different integer marks on five parameters. So Vikram and Ajay got 6 and 4 marks respectively. On Confident, candidates got 1, 3, 5, 7 and 9 marks in any order.
From condition (iv), on Presence of Mind, Balwan got 10 marks and on Confidence, Kamba got 9 marks.
From condition (v), Ajay's rank on Presence of mind is 4. So on Confidence, Ajay got 3 marks. On Presence of Mind, Saurabh's rank is 5 and got 2 marks. On Confidence, Saurabh got 1 mark.
Step 2:
From condition (vi), on Humor, Ajay, Balwan, Kamba, Saurabh, Vikram got 7, 5, 7, 5, 4 respectively.
Hence, the table can be shown as:

	Ajay	Balwan	Kamba	Saurabh	Vikram	Total
Tactfulness	5	4	4	4	3	20
Presence of mind	4	10	8	2	6	30
Humor	7	5	7	5	4	28
Confidence	3	7	9	1	5	25
Alertness	6	6	6	6	7	31
Total	25	32	34	18	25	

The marks obtained by Ajay on Confidence was 3.

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(vi) Everyone got 4 to 7 marks in Humor. Also, Kamba got more marks than Saurabh in this parameter.

Q.6 [11831809]
Which candidate(s) got the minimum aggregate marks on all the 5 parameters in the interview?

1 ◯ Ajay

2 ◯ Both Balwan & Saurabh

3 ◯ Saurabh

4 ◯ Both Ajay & Vikram

Solution:
Correct Answer : 3

Answer key/Solution

Step 1:
From condition (i), sum of marks on Alertness is 31 and marks of Vikram are more than that of Kamba. So the only possible combination is (6, 6, 6, 6, 7).
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Alertness	6	6	6	6	7	31
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Saurabh got the minimum aggregate marks.

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(vi) Everyone got 4 to 7 marks in Humor. Also, Kamba got more marks than Saurabh in this parameter.

Q.7 [11831809]
In which parameter did Vikram get the highest marks in the interview?

1 ◯ Presence of Mind

2 ◯ Humor

3 ◯ Confidence

4 ◯ Alertness

Solution:
Correct Answer : 4

Answer key/Solution

Step 1:
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Alertness	6	6	6	6	7	31
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Vikram got the highest marks on Alertness.

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(vi) Everyone got 4 to 7 marks in Humor. Also, Kamba got more marks than Saurabh in this parameter.

Q.8 [11831809]
What were the total marks obtained by all the 5 candidates on Humor?

Solution:
Correct Answer : 28

Answer key/Solution

Step 1:
From condition (i), sum of marks on Alertness is 31 and marks of Vikram are more than that of Kamba. So the only possible combination is (6, 6, 6, 6, 7).
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(vi) Everyone got 4 to 7 marks in Humor. Also, Kamba got more marks than Saurabh in this parameter.

Q.9 [11831809]
If only those candidates got additional marks whose aggregate marks on all the 5 parameters were more than 50% in the interview, then what were the maximum total additional marks obtained by the candidates?

1 ◯ 10

2 ◯ 20

3 ◯ 16

4 ◯ 8

Solution:
Correct Answer : 1

Answer key/Solution

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Confidence	3	7	9	1	5	25
Alertness	6	6	6	6	7	31
Total	25	32	34	18	25	

Only Balwan and Kamba got the aggregate marks more than 50%. So maximum additional marks obtained by the candidates = 5 + 5 = 10.

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(vi) Everyone got 4 to 7 marks in Humor. Also, Kamba got more marks than Saurabh in this parameter.

Q.10 [11831809]
If all the 5 candidates got additional marks, then what were the minimum average marks obtained by a candidate in the interview?

1 ◯ 26.8

2 ◯ 29.8

3 ◯ 31.8

4 ◯ 34.8

Solution:
Correct Answer : 2

Answer key/Solution

Step 1:
From condition (i), sum of marks on Alertness is 31 and marks of Vikram are more than that of Kamba. So the only possible combination is (6, 6, 6, 6, 7).
From condition (ii), on Tactfulness, Ajay and Vikram got 5 and 3 marks respectively. The other three candidates got 4-4 marks.
From condition (iii), on Presence of Mind, candidates got 2, 4, 6, 8 and 10 marks in any order. But each of the five candidates obtained different integer marks on five parameters. So Vikram and Ajay got 6 and 4 marks respectively. On Confident, candidates got 1, 3, 5, 7 and 9 marks in any order.
From condition (iv), on Presence of Mind, Balwan got 10 marks and on Confidence, Kamba got 9 marks.
From condition (v), Ajay's rank on Presence of mind is 4. So on Confidence, Ajay got 3 marks. On Presence of Mind, Saurabh's rank is 5 and got 2 marks. On Confidence, Saurabh got 1 mark.
Step 2:
From condition (vi), on Humor, Ajay, Balwan, Kamba, Saurabh, Vikram got 7, 5, 7, 5, 4 respectively.
Hence, the table can be shown as:

	Ajay	Balwan	Kamba	Saurabh	Vikram	Total
Tactfulness	5	4	4	4	3	20
Presence of mind	4	10	8	2	6	30
Humor	7	5	7	5	4	28
Confidence	3	7	9	1	5	25
Alertness	6	6	6	6	7	31
Total	25	32	34	18	25	

For the minimum marks, all the 5 candidates got additional marks on excellent academic records.
So total minimum marks obtained by all the 5 candidates = 25 + 32 + 34 + 18 + 25 + 3 × 5 = 149.

Hence, the minimum average marks obtained by a candidate = $\frac{149}{5}$ = 29.8.

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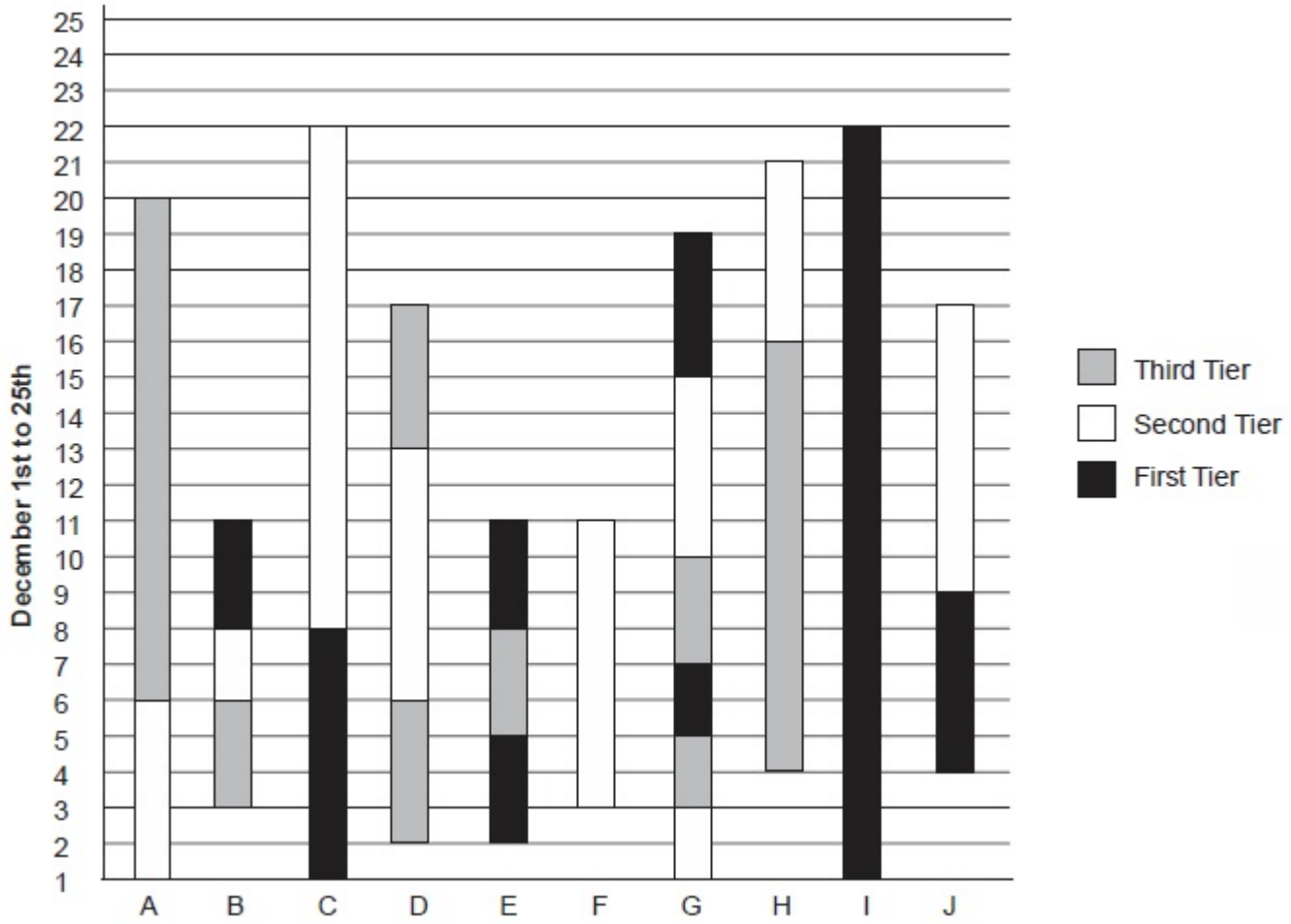
Directions for questions 11 to 14: Answer the questions on the basis of the information given below.

The different bars in the diagram below provide information about train tickets booked from station P to station Q by 10 travel agencies A to J. The tickets were booked in the first three weeks of December but were then cancelled by the client. The colour and pattern of a bar denotes the ticket mode (First Tier / Second Tier / Third Tier). The lower end of a bar indicates the booking day of the ticket, while the upper end indicates the cancellation day of the ticket. All the tickets were booked for 24th of December. The difference between the booking day and the cancellation day (measured in terms of the number of days) is called the waiting time.

For example, there were only two ticket bookings made by agency J during this period. The first ticket was in First Tier. It was booked on December 4 and cancelled on December 9. The second ticket was of Second Tier. It was booked on December 9 (although the request by the client might have been placed before that) and cancelled on December 17. So, the waiting time were 5 and 8 days respectively for these tickets.



Each agency charged Rs. 1,100 for a First Tier ticket, Rs. 800 for a Second Tier ticket and Rs. 400 for a Third Tier ticket. Each agency earned 20% of the total charge and other 80% was the actual ticket cost. If waiting time was less than or equal to 5 days, then each agency refunded full actual ticket cost back to the client. If waiting time was more than 5 days, then each agency refunded 90% of the actual ticket cost. Revenue of an agency in this period was calculated as: (the amount charged – amount refunded)

Q.11 [11831809]

What was the ratio of the Second Tier and Third Tier tickets booked by the agencies between December 1 and December 14 (both inclusive)?

1 ◯ 7 : 8

2 ◯ 1 : 1

3 ◯ 8 : 7

4 ◯ 9 : 8

Answer key/Solution

Solution:
Correct Answer : 2
The number of Second Tier tickets booked by the agencies in total was 9, but one of them was booked after December 14, so as per question requirement, 8 tickets were booked from December 1 to December 14. The number of Third Tier tickets booked are 8 in total. Hence, required ratio was = 1 : 1.

Bookmark FeedBack

Directions for questions 11 to 14: Answer the questions on the basis of the information given below.

The different bars in the diagram below provide information about train tickets booked from station P to station Q by 10 travel agencies A to J. The tickets were booked in the first three weeks of December but were then cancelled by the client. The colour and pattern of a bar denotes the ticket mode (First Tier / Second Tier / Third Tier). The lower end of a bar indicates the booking day of the ticket, while the upper end indicates the cancellation day of the ticket. All the tickets were booked for 24th of December. The difference between the booking day and the cancellation day (measured in terms of the number of days) is called the waiting time.

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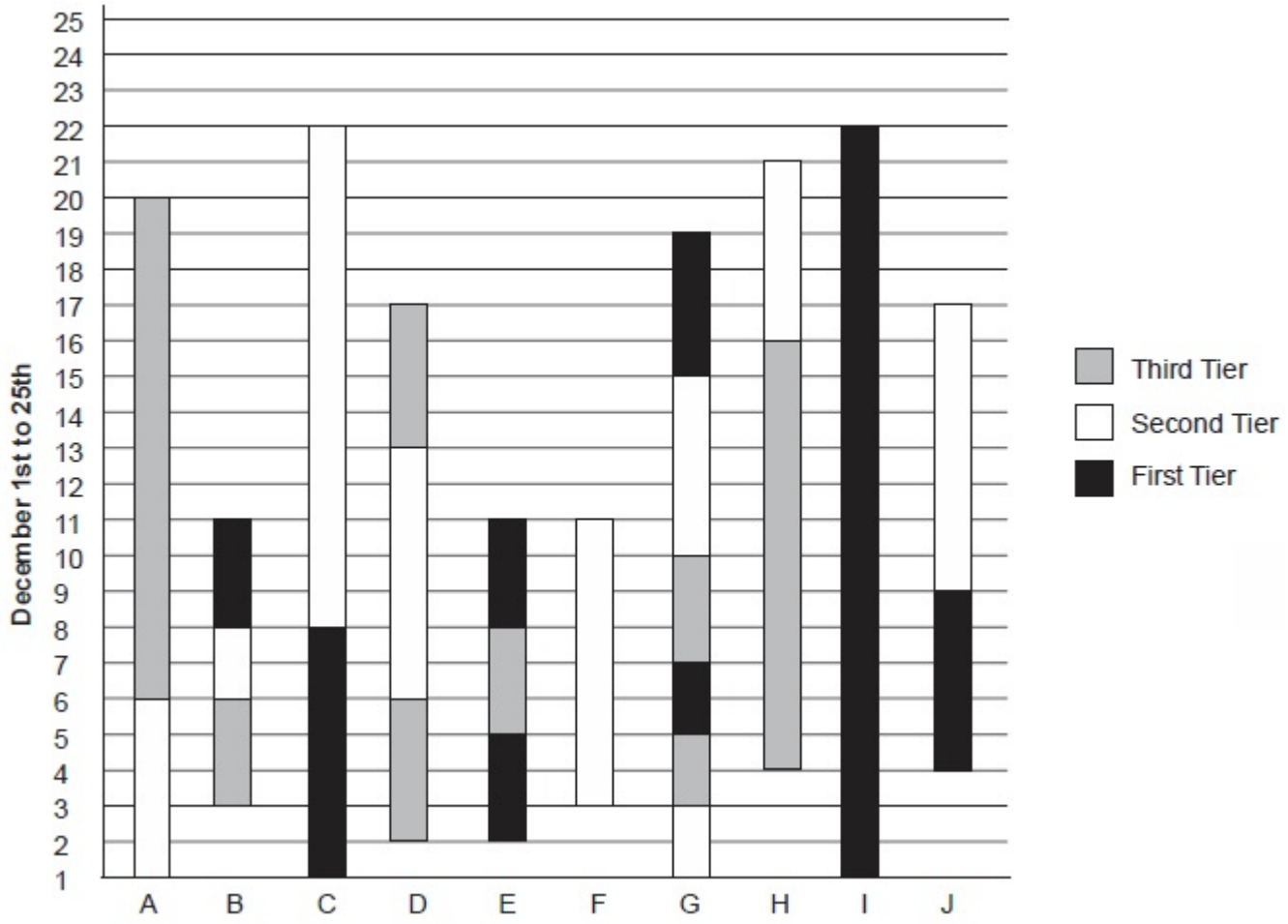


Each agency charged Rs. 1,100 for a First Tier ticket, Rs. 800 for a Second Tier ticket and Rs. 400 for a Third Tier ticket. Each agency earned 20% of the total charge and other 80% was the actual ticket cost. If waiting time was less than or equal to 5 days, then each agency refunded full actual ticket cost back to the client. If waiting time was more than 5 days, then each agency refunded 90% of the actual ticket cost. Revenue of an agency in this period was calculated as: (the amount charged – amount refunded)

Q.12 [11831809]

What was the average revenue (in Rs.) of the agencies that booked tickets in only one type of tier?

Answer key/Solution

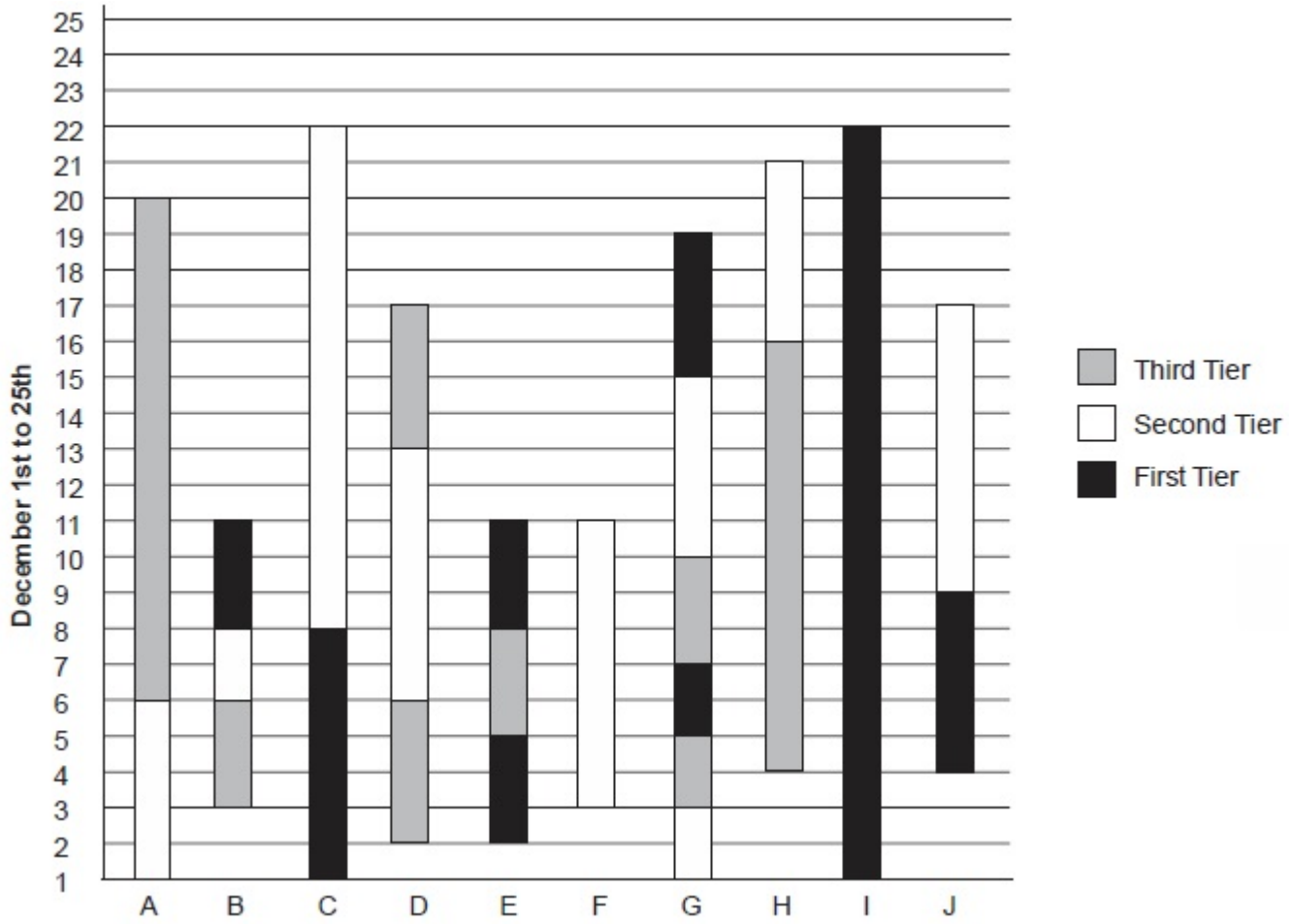
Solution:
Correct Answer : 266
F and I were the only two agencies that booked the ticket in only one type of tier i.e., Second Tier and First Tier respectively.
Agency F – Booked ticket on December 3 and cancelled ticket on December 11.
Waiting time was 8 days, which was clearly more than 5 days.
Revenue of agency F = 800 – 800 × 0.8 × 0.9 = Rs. 224.
Agency I – Booked ticket on December 1 and cancelled ticket on December 22.
Waiting time was more than 5 days, so, revenue of agency I = 1100 – 1100 × 0.8 × 0.9 = Rs. 308.
Hence, required average revenue = (224 + 308)/2 = 532/2 = Rs. 266.

Bookmark FeedBack

Directions for questions 11 to 14: Answer the questions on the basis of the information given below.

The different bars in the diagram below provide information about train tickets booked from station P to station Q by 10 travel agencies A to J. The tickets were booked in the first three weeks of December but were then cancelled by the client. The colour and pattern of a bar denotes the ticket mode (First Tier / Second Tier / Third Tier). The lower end of a bar indicates the booking day of the ticket, while the upper end indicates the cancellation day of the ticket. All the tickets were booked for 24th of December. The difference between the booking day and the cancellation day (measured in terms of the number of days) is called the waiting time.

For example, there were only two ticket bookings made by agency J during this period. The first ticket was in First Tier. It was booked on December 4 and cancelled on December 9. The second ticket was of Second Tier. It was booked on December 9 (although the request by the client might have been placed before that) and cancelled on December 17. So, the waiting time were 5 and 8 days respectively for these tickets.



Each agency charged Rs. 1,100 for a First Tier ticket, Rs. 800 for a Second Tier ticket and Rs. 400 for a Third Tier ticket. Each agency earned 20% of the total charge and other 80% was the actual ticket cost. If waiting time was less than or equal to 5 days, then each agency refunded full actual ticket cost back to the client. If waiting time was more than 5 days, then each agency refunded 90% of the actual ticket cost. Revenue of an agency in this period was calculated as: (the amount charged – amount refunded)

Q.13 [11831809]

The sequence of agencies — B, D, E and G — in increasing order of their revenues in this period was:

1 ◯ B, D, E, G

2 ◯ E, D, B, G

3 ◯ D, B, E, G

4 ◯ D, B, G, E

Answer key/Solution

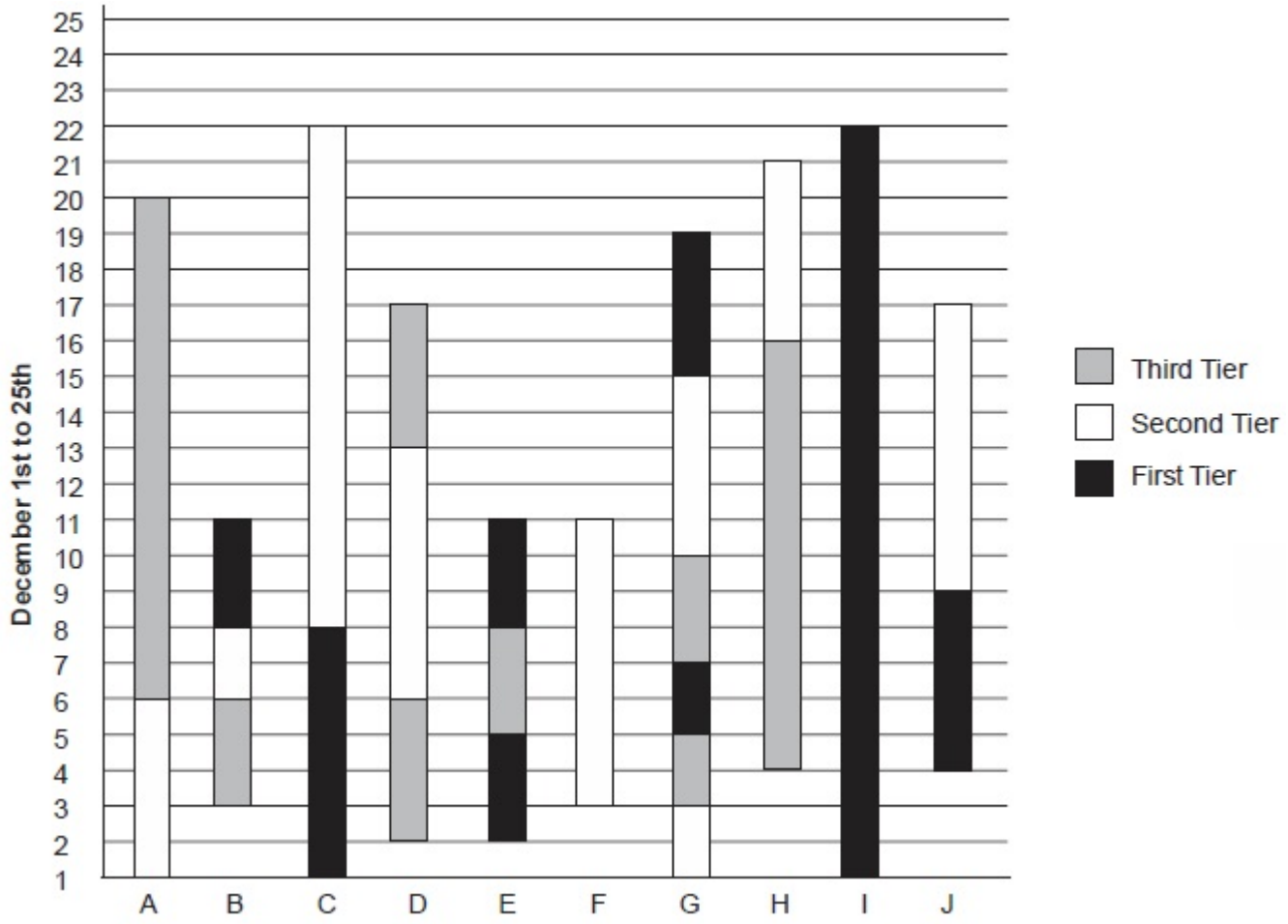
Solution:
Correct Answer : 3
Revenue of agency B = 220 + 160 + 80 = Rs. 460
Revenue of agency D = 800 – 800 × 0.8 × 0.9 + 2 × 80 = 224 + 160 = Rs. 384
Revenue of agency E = 220 + 220 + 80 = Rs. 520
Revenue of agency G = 160 + 80 + 220 + 80 + 160 + 220 = R. 920
Hence, D, B, E and G was the correct sequence in increasing order.

Bookmark FeedBack

Directions for questions 11 to 14: Answer the questions on the basis of the information given below.

The different bars in the diagram below provide information about train tickets booked from station P to station Q by 10 travel agencies A to J. The tickets were booked in the first three weeks of December but were then cancelled by the client. The colour and pattern of a bar denotes the ticket mode (First Tier / Second Tier / Third Tier). The lower end of a bar indicates the booking day of the ticket, while the upper end indicates the cancellation day of the ticket. All the tickets were booked for 24th of December. The difference between the booking day and the cancellation day (measured in terms of the number of days) is called the waiting time.

For example, there were only two ticket bookings made by agency J during this period. The first ticket was in First Tier. It was booked on December 4 and cancelled on December 9. The second ticket was of Second Tier. It was booked on December 9 (although the request by the client might have been placed before that) and cancelled on December 17. So, the waiting time were 5 and 8 days respectively for these tickets.



Each agency charged Rs. 1,100 for a First Tier ticket, Rs. 800 for a Second Tier ticket and Rs. 400 for a Third Tier ticket. Each agency earned 20% of the total charge and other 80% was the actual ticket cost. If waiting time was less than or equal to 5 days, then each agency refunded full actual ticket cost back to the client. If waiting time was more than 5 days, then each agency refunded 90% of the actual ticket cost. Revenue of an agency in this period was calculated as: (the amount charged – amount refunded)

Q.14 [11831809]

What percentage of ticket bookings had a waiting time of atmost 3 days during the period December 1 to December 22 (both dates inclusive)?

1 ◯ 40%

2 ◯ 25%

3 ◯ 36%

4 ◯ 33%

Solution:

Answer key/Solution

Correct Answer : 1

Number of bookings that had waiting time of atmost 3 days = 10

Total number of bookings = 25

Percentage of bookings that had a waiting time of atmost 3 day during the period December 1 to December 22 (both dates inclusive) = 10/25 × 100 = 40%.

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Directions for questions 15 to 20: Answer the questions on the basis of the information given below.

A Public Limited company conducts a psychometric test for its newcomers. The eight major qualities that the management seeks in its employees are Adaptability (A), Collaboration (C), Dedication (D), Flexibility (F), Honesty (H), Integrity (I), Ownership (O) and Risk-taking (R). There are sixteen questions, numbered 1 to 16, in the psychometric test and the choice of answers determines the presence or absence of the above-mentioned qualities in the employee. Each question has a simple Yes or No answer. The HR then strives to provide training to the employee in the right direction. If all answers affecting a quality are 'Yes', then the quality is present in the employee. If even one of the answers is 'No', then the qualities being affected are absent. The table given below shows the qualities being assessed by each of the sixteen questions:

Q. No.	Qualities	Q. No.	Qualities
1	C - F - I - R	9	A - F - I - R
2	C - F - I - O	10	A - F - I - O
3	C - F - H - R	11	A - F - H - R
4	C - F - H - O	12	A - F - H - O
5	C - D - I - R	13	A - D - I - R
6	C - D - I - O	14	A - D - I - O
7	C - D - H - R	15	A - D - H - R
8	C - D - H - O	16	A - D - H - O

Q.15 [11831809]

For a certain job profile four out of the eight qualities are definitely required, namely Collaboration, Flexibility, Honesty and Ownership. If a candidate qualifies for the job, then out of the sixteen questions how many can have "No" as an answer?

1 ◯ One

2 ◯ Three

3 ◯ Two

4 ◯ None

Solution:
Correct Answer : 1

Answer key/Solution

According to the information we can say that the questions that might affect each of these 8 qualities are as follows.
[Adaptability : Q. 9, 10, 11, 12, 13, 14, 15, 16] ; [Collaboration: Q. 1, 2, 3, 4, 5, 6, 7, 8] ;
[Dedication: Q. 5, 6, 7, 8, 13, 14, 15, 16] ; [Flexibility: Q. 1, 2, 3, 4, 9, 10, 11, 12]
[Honesty: Q. 3, 4, 7, 8, 11, 12, 15, 16] ; [Integrity: Q. 1, 2, 5, 6, 9, 10, 13, 14]
[Ownership: Q. 2, 4, 6, 8, 10, 12, 14, 16] ; [Risk-taking: Q. 1, 3, 5, 7, 9, 11, 13, 15]
This can be tabulated as shown below:

Q.No.	A	C	D	F	H	I	O	R	Q.No.	A	C	D	F	H	I	O	R
1		Y		Y		Y		Y	9	Y			Y		Y		Y
2		Y		Y		Y	Y		10	Y			Y		Y	Y	
3		Y		Y	Y			Y	11	Y			Y	Y			Y
4		Y		Y	Y		Y		12	Y			Y	Y		Y	
5		Y	Y			Y		Y	13	Y		Y			Y		Y
6		Y	Y			Y	Y		14	Y		Y			Y	Y	
7		Y	Y		Y			Y	15	Y		Y		Y			Y
8		Y	Y		Y		Y		16	Y		Y		Y		Y	

We can see from the table that for these four qualities to be present in a candidate the answer to all the questions except 13 should be a "Yes".

Bookmark FeedBack

Directions for questions 15 to 20: Answer the questions on the basis of the information given below.

A Public Limited company conducts a psychometric test for its newcomers. The eight major qualities that the management seeks in its employees are Adaptability (A), Collaboration (C), Dedication (D), Flexibility (F), Honesty (H), Integrity (I), Ownership (O) and Risk-taking (R). There are sixteen questions, numbered 1 to 16, in the psychometric test and the choice of answers determines the presence or absence of the above-mentioned qualities in the employee. Each question has a simple Yes or No answer. The HR then strives to provide training to the employee in the right direction. If all answers affecting a quality are 'Yes', then the quality is present in the employee. If even one of the answers is 'No', then the qualities being affected are absent. The table given below shows the qualities being assessed by each of the sixteen questions:

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4	C - F - H - O	12	A - F - H - O
5	C - D - I - R	13	A - D - I - R
6	C - D - I - O	14	A - D - I - O
7	C - D - H - R	15	A - D - H - R
8	C - D - H - O	16	A - D - H - O

Q.16 [11831809]

If the answer to one or more even numbered questions was "No" for a candidate, then for which of these qualities will he/she not required to undergo training?

1 ◯ Adaptability

2 ◯ Ownership

3 ◯ Risk-taking

4 ◯ Integrity

Solution:
Correct Answer : 3

Answer key/Solution

According to the information we can say that the questions that might affect each of these 8 qualities are as follows.
[Adaptability : Q. 9, 10, 11, 12, 13, 14, 15, 16] ; [Collaboration: Q. 1, 2, 3, 4, 5, 6, 7, 8] ;
[Dedication: Q. 5, 6, 7, 8, 13, 14, 15, 16] ; [Flexibility: Q. 1, 2, 3, 4, 9, 10, 11, 12]
[Honesty: Q. 3, 4, 7, 8, 11, 12, 15, 16] ; [Integrity: Q. 1, 2, 5, 6, 9, 10, 13, 14]
[Ownership: Q. 2, 4, 6, 8, 10, 12, 14, 16] ; [Risk-taking: Q. 1, 3, 5, 7, 9, 11, 13, 15]
This can be tabulated as shown below:

Q.No.	A	C	D	F	H	I	O	R	Q.No.	A	C	D	F	H	I	O	R
1		Y		Y		Y		Y	9	Y			Y		Y		Y
2		Y		Y		Y	Y		10	Y			Y		Y	Y	
3		Y		Y	Y			Y	11	Y			Y	Y			Y
4		Y		Y	Y		Y		12	Y			Y	Y		Y	
5		Y	Y			Y		Y	13	Y		Y			Y		Y
6		Y	Y			Y	Y		14	Y		Y			Y	Y	
7		Y	Y		Y			Y	15	Y		Y		Y			Y
8		Y	Y		Y		Y		16	Y		Y		Y		Y	

We can see from the above table that Risk-taking is not affected if one or more of the even numbered questions have NO as an answer.

Bookmark FeedBack

Directions for questions 15 to 20: Answer the questions on the basis of the information given below.

A Public Limited company conducts a psychometric test for its newcomers. The eight major qualities that the management seeks in its employees are Adaptability (A), Collaboration (C), Dedication (D), Flexibility (F), Honesty (H), Integrity (I), Ownership (O) and Risk-taking (R). There are sixteen questions, numbered 1 to 16, in the psychometric test and the choice of answers determines the presence or absence of the above-mentioned qualities in the employee. Each question has a simple Yes or No answer. The HR then strives to provide training to the employee in the right direction. If all answers affecting a quality are 'Yes', then the quality is present in the employee. If even one of the answers is 'No', then the qualities being affected are absent. The table given below shows the qualities being assessed by each of the sixteen questions:

Q. No.	Qualities	Q. No.	Qualities
1	C - F - I - R	9	A - F - I - R
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3	C - F - H - R	11	A - F - H - R
4	C - F - H - O	12	A - F - H - O
5	C - D - I - R	13	A - D - I - R
6	C - D - I - O	14	A - D - I - O
7	C - D - H - R	15	A - D - H - R
8	C - D - H - O	16	A - D - H - O

Q.17 [11831809]

If it is concluded that an employee lacks Dedication but has the qualities of Adaptability, Honesty and Risk-taking, then the answer given by him/her to which of the following questions was 'No'?

1 ◯ Question 8

2 ◯ Question 2

3 ◯ Question 6

4 ◯ Question 14

Solution:
Correct Answer : 3

Answer key/Solution

According to the information we can say that the questions that might affect each of these 8 qualities are as follows.
[Adaptability : Q. 9, 10, 11, 12, 13, 14, 15, 16] ; [Collaboration: Q. 1, 2, 3, 4, 5, 6, 7, 8] ;
[Dedication: Q. 5, 6, 7, 8, 13, 14, 15, 16] ; [Flexibility: Q. 1, 2, 3, 4, 9, 10, 11, 12]
[Honesty: Q. 3, 4, 7, 8, 11, 12, 15, 16] ; [Integrity: Q. 1, 2, 5, 6, 9, 10, 13, 14]
[Ownership: Q. 2, 4, 6, 8, 10, 12, 14, 16] ; [Risk-taking: Q. 1, 3, 5, 7, 9, 11, 13, 15]
This can be tabulated as shown below:

Q.No.	A	C	D	F	H	I	O	R	Q.No.	A	C	D	F	H	I	O	R
1		Y		Y		Y		Y	9	Y			Y		Y		Y
2		Y		Y		Y	Y		10	Y			Y		Y	Y	
3		Y		Y	Y			Y	11	Y			Y	Y			Y
4		Y		Y	Y		Y		12	Y			Y	Y		Y	
5		Y	Y			Y		Y	13	Y		Y			Y		Y
6		Y	Y			Y	Y		14	Y		Y			Y	Y	
7		Y	Y		Y			Y	15	Y		Y		Y			Y
8		Y	Y		Y		Y		16	Y		Y		Y		Y	

Since the employee is lacking in Dedication it has to be one out of Q. 5, 6, 7, 8, 13, 14, 15, 16 that has 'No' as an answer. But since the employee has the qualities of Adaptability, Honesty and Risk-taking, therefore Q. 13, 14, 15, 16, 7, 8, and 5 are not the ones with 'No' as the answer. Hence, Q. 6 is the one with 'No' as the answer.

Bookmark FeedBack

Directions for questions 15 to 20: Answer the questions on the basis of the information given below.

A Public Limited company conducts a psychometric test for its newcomers. The eight major qualities that the management seeks in its employees are Adaptability (A), Collaboration (C), Dedication (D), Flexibility (F), Honesty (H), Integrity (I), Ownership (O) and Risk-taking (R). There are sixteen questions, numbered 1 to 16, in the psychometric test and the choice of answers determines the presence or absence of the above-mentioned qualities in the employee. Each question has a simple Yes or No answer. The HR then strives to provide training to the employee in the right direction. If all answers affecting a quality are 'Yes', then the quality is present in the employee. If even one of the answers is 'No', then the qualities being affected are absent. The table given below shows the qualities being assessed by each of the sixteen questions:

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5	C - D - I - R	13	A - D - I - R
6	C - D - I - O	14	A - D - I - O
7	C - D - H - R	15	A - D - H - R
8	C - D - H - O	16	A - D - H - O

Q.18 [11831809]

If it is concluded that an employee lacks Adaptability but has Flexibility and Ownership, then the presence or absence of which of the following qualities in the employee will definitely help us determine the question for which his/her answer was 'No'?

1 ◯ Honesty

2 ◯ Risk-taking

3 ◯ Dedication

4 ◯ Collaboration

Solution:
Correct Answer : 1

Answer key/Solution

According to the information we can say that the questions that might affect each of these 8 qualities are as follows.
[Adaptability : Q. 9, 10, 11, 12, 13, 14, 15, 16] ; [Collaboration: Q. 1, 2, 3, 4, 5, 6, 7, 8] ;
[Dedication: Q. 5, 6, 7, 8, 13, 14, 15, 16] ; [Flexibility: Q. 1, 2, 3, 4, 9, 10, 11, 12]
[Honesty: Q. 3, 4, 7, 8, 11, 12, 15, 16] ; [Integrity: Q. 1, 2, 5, 6, 9, 10, 13, 14]
[Ownership: Q. 2, 4, 6, 8, 10, 12, 14, 16] ; [Risk-taking: Q. 1, 3, 5, 7, 9, 11, 13, 15]
This can be tabulated as shown below:

Q.No.	A	C	D	F	H	I	O	R	Q.No.	A	C	D	F	H	I	O	R
1		Y		Y		Y		Y	9	Y			Y		Y		Y
2		Y		Y		Y	Y		10	Y			Y		Y	Y	
3		Y		Y	Y			Y	11	Y			Y	Y			Y
4		Y		Y	Y		Y		12	Y			Y	Y		Y	
5		Y	Y			Y		Y	13	Y		Y			Y		Y
6		Y	Y			Y	Y		14	Y		Y			Y	Y	
7		Y	Y		Y			Y	15	Y		Y		Y			Y
8		Y	Y		Y		Y		16	Y		Y		Y		Y	

If the employee does not possess Adaptability, then the question with 'No' as the answer will be one among Q. 9, 10, 11, 12, 13, 14, 15, 16, but since the qualities of Flexibility and Ownership are present, Q. 9, 10, 11, 12, 14, 16 are excluded.
So the only questions left are 13 and 15. Both these questions are used to determine Risk-taking. Knowing whether the employee possesses Risk-taking will not help us determine the answer. So option (2) is not the answer.
Both questions are used to determine the presence of Dedication. So option (3) is not the answer.
Answers for Q.13 or 15 are not used to determine the presence of Collaboration. So option (4) is not the answer.
Only the answer for Q. 15 is used to determine the presence of Honesty. If the person is not Honest, then Q.15 has the answer 'No' otherwise Q.13 has answer 'No'.
Hence, option (1) is the correct.

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Directions for questions 15 to 20: Answer the questions on the basis of the information given below.

A Public Limited company conducts a psychometric test for its newcomers. The eight major qualities that the management seeks in its employees are Adaptability (A), Collaboration (C), Dedication (D), Flexibility (F), Honesty (H), Integrity (I), Ownership (O) and Risk-taking (R). There are sixteen questions, numbered 1 to 16, in the psychometric test and the choice of answers determines the presence or absence of the above-mentioned qualities in the employee. Each question has a simple Yes or No answer. The HR then strives to provide training to the employee in the right direction. If all answers affecting a quality are 'Yes', then the quality is present in the employee. If even one of the answers is 'No', then the qualities being affected are absent. The table given below shows the qualities being assessed by each of the sixteen questions:

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4	C - F - H - O	12	A - F - H - O
5	C - D - I - R	13	A - D - I - R
6	C - D - I - O	14	A - D - I - O
7	C - D - H - R	15	A - D - H - R
8	C - D - H - O	16	A - D - H - O

Q.19 [11831809]

Which of the following combinations of qualities in an individual cannot be possible with the given test results?

1 ◯ Absence of Collaboration and Flexibility; Presence of Integrity and Risk-taking

2 ◯ Absence of Adaptability and Honesty; Presence of Dedication and Flexibility

3 ◯ Absence of Adaptability and Ownership; Presence of Dedication and Honesty

4 ◯ Absence of Collaboration; Presence of Dedication, Integrity and Risk taking

Solution:
Correct Answer : 2

Answer key/Solution

According to the information we can say that the questions that might affect each of these 8 qualities are as follows.
[Adaptability : Q. 9, 10, 11, 12, 13, 14, 15, 16] ; [Collaboration: Q. 1, 2, 3, 4, 5, 6, 7, 8] ;
[Dedication: Q. 5, 6, 7, 8, 13, 14, 15, 16] ; [Flexibility: Q. 1, 2, 3, 4, 9, 10, 11, 12]
[Honesty: Q. 3, 4, 7, 8, 11, 12, 15, 16] ; [Integrity: Q. 1, 2, 5, 6, 9, 10, 13, 14]
[Ownership: Q. 2, 4, 6, 8, 10, 12, 14, 16] ; [Risk-taking: Q. 1, 3, 5, 7, 9, 11, 13, 15]
This can be tabulated as shown below:

Q.No.	A	C	D	F	H	I	O	R	Q.No.	A	C	D	F	H	I	O	R
1		Y		Y		Y		Y	9	Y			Y		Y		Y
2		Y		Y		Y	Y		10	Y			Y		Y	Y	
3		Y		Y	Y			Y	11	Y			Y	Y			Y
4		Y		Y	Y		Y		12	Y			Y	Y		Y	
5		Y	Y			Y		Y	13	Y		Y			Y		Y
6		Y	Y			Y	Y		14	Y		Y			Y	Y	
7		Y	Y		Y			Y	15	Y		Y		Y			Y
8		Y	Y		Y		Y		16	Y		Y		Y		Y	

If Dedication and Flexibility are present, then the answer cannot be 'No' for any question because Dedication = {5, 6, 7, 8, 13, 14, 15, 16} and Flexibility = {1, 2, 3, 4, 9, 10, 11, 12} which covers all 16 questions.

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Directions for questions 15 to 20: Answer the questions on the basis of the information given below.

A Public Limited company conducts a psychometric test for its newcomers. The eight major qualities that the management seeks in its employees are Adaptability (A), Collaboration (C), Dedication (D), Flexibility (F), Honesty (H), Integrity (I), Ownership (O) and Risk-taking (R). There are sixteen questions, numbered 1 to 16, in the psychometric test and the choice of answers determines the presence or absence of the above-mentioned qualities in the employee. Each question has a simple Yes or No answer. The HR then strives to provide training to the employee in the right direction. If all answers affecting a quality are 'Yes', then the quality is present in the employee. If even one of the answers is 'No', then the qualities being affected are absent. The table given below shows the qualities being assessed by each of the sixteen questions:

Q. No.	Qualities	Q. No.	Qualities
1	C - F - I - R	9	A - F - I - R
2	C - F - I - O	10	A - F - I - O
3	C - F - H - R	11	A - F - H - R
4	C - F - H - O	12	A - F - H - O
5	C - D - I - R	13	A - D - I - R
6	C - D - I - O	14	A - D - I - O
7	C - D - H - R	15	A - D - H - R
8	C - D - H - O	16	A - D - H - O

Q.20 [11831809]

If we know that Question No.7 was answered with a 'No', then which of the following combinations of qualities would not be possible in the employee?

1 ◯ Adaptability, Integrity, Ownership

2 ◯ Integrity, Flexibility, Ownership

3 ◯ Ownership, Collaboration, Dedication

4 ◯ Flexibility, Adaptability, Integrity

Solution:
Correct Answer : 3

Answer key/Solution

According to the information we can say that the questions that might affect each of these 8 qualities are as follows.
[Adaptability : Q. 9, 10, 11, 12, 13, 14, 15, 16] ; [Collaboration: Q. 1, 2, 3, 4, 5, 6, 7, 8] ;
[Dedication: Q. 5, 6, 7, 8, 13, 14, 15, 16] ; [Flexibility: Q. 1, 2, 3, 4, 9, 10, 11, 12]
[Honesty: Q. 3, 4, 7, 8, 11, 12, 15, 16] ; [Integrity: Q. 1, 2, 5, 6, 9, 10, 13, 14]
[Ownership: Q. 2, 4, 6, 8, 10, 12, 14, 16] ; [Risk-taking: Q. 1, 3, 5, 7, 9, 11, 13, 15]
This can be tabulated as shown below:

Q.No.	A	C	D	F	H	I	O	R	Q.No.	A	C	D	F	H	I	O	R
1		Y		Y		Y		Y	9	Y			Y		Y		Y
2		Y		Y		Y	Y		10	Y			Y		Y	Y	
3		Y		Y	Y			Y	11	Y			Y	Y			Y
4		Y		Y	Y		Y		12	Y			Y	Y		Y	
5		Y	Y			Y		Y	13	Y		Y			Y		Y
6		Y	Y			Y	Y		14	Y		Y			Y	Y	
7		Y	Y		Y			Y	15	Y		Y		Y			Y
8		Y	Y		Y		Y		16	Y		Y		Y		Y	

Questions involved in Collaboration = {1, 2, 3, 4, 5, 6, 7, 8}, this includes Q. 7.

Hence, this is not a possible combination.

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