Directions (Q1 - Q5): Read the information given below and based on the same, answer the following questions: Eight people E, F, G, H, J, K, L and M are sitting around a circular table facing the centre. Each of them is of a different profession Chartered Accountant, Columnist, Doctor, Engineer, Financial Analyst, Lawyer, Professor and Scientist but not necessarily in the same order. F is sitting second to the left of K. The Scientist is an immediate neighbour of K. There are only three people between the Scientist and E. Only one person sits between the Engineer and E. The Columnist is to the immediate right of the Engineer. M is second to the right of K. H is the Scientist. G and J are immediate neighbours of each other. Neither G nor J is an Engineer. The Financial Analyst is to the immediate left of F. The Lawyer is second to the right of the Columnist. The Professor is an immediate neighbour of the Engineer. G is second to the right of the Chartered Accountant.

Q 1. Which of the following statements is true according to the given arrangement?
1. The Lawyer is second to the left of the Doctor B
2. E is an immediate neighbour of the Financial Analyst C
3. H sits exactly between F and the Financial Analyst
4. Only four people sit between the Columnist and F
5. All of the given statements are true

Q 2. What is the position of L with respect to the Scientist?
1. Third to the left
2. Second to the right
3. Second to the left
4. Third to the right
5. Immediate right

Q 3. Four of the following five are alike in a certain way based on the given arrangement and hence from a group. Which of the following does not belong to that group?
1. Chartered Accountant - H
2. M - Doctor
3. J - Engineer
4. Financial Analyst - L
5. Lawyer - K

Q 4. Who amongst the following is the Professor?
1. F
2. L
3. M
4. K
5. J

Q 5. Who is sitting second to the right of E?
1. The Lawyer
2. G
3. The Engineer
4. F
5. K

Direction for Q.6 - Q.10: Study the following information and answer the following and answer the following question:

Seven members of a family, namely Pranav, Madhu, Rakul, Sandeep, Tanmay, Varun and Nidhi go to a restaurant for dinner and sit in a row on one side of a big dining table, not necessarily in the same order. Tanmay sits at one of the extreme end of the table. Madhu sits on third left of Tanmay. There is only one member between Sandeep and Nidhi. Sandeep is sitting immediate next to Madhu. Pranav is not an immediate neighbour to Tanmay and Sandeep. Pranav and Rakul are not sitting at the extreme end of the row.

Q.6 What is Rakul's position with respect to Pranav?
1. Second to the right
2. Fourth to the right
3. Second to the left
4. Third to the left
5. First to the right

Q.7 Who is sitting exactly in the middle of the row?
1. Pranav
2. Nidhi
3. Sandeep
4. Madhu
5. Rakul

Q. 8 Who among the following does sit to the immediate left of Nidhi?
1. Madhu
2. Pranav
3. Rakul
4. Sandeep
5. Tanmay

Q.9 The board members form a group of two members which are somehow alike based on their sitting arrangement. Find out the odd one which will not belong to the group
1. Madhu-Sandeep
2. Varun-Pranav

3. Tanmay-Rakul
4. Pranav-Nidhi
5. Nidhi-Madhu

Q.10 If all the board members are asked to sit in alphabetical order from right to left, how many of the members position will remain unchanged?
1. One
2. Two
3. Three
4. Four
5. None

Directions Q.11 to Q.15: Read each sentence to find any grammatical error(s). If there are any it will be one part of the sentences. Mark that part as your answer. If the sentence is correct mark the option 5 (No error) as your answer. (Ignore any punctuation errors as such).

Q.11 Many an (1) engineer has filled up (2) / this forma a (3) / long time ago. (4) / No error (5)

Q.12 As Karan and Sudha watched (1) / the football match, which (2) / were being played in Canada, the (3) / man robbed the whole house. (4) / No error (5)

Q.13 Each group were (1) / given a separate tent (2) / and some tools to (3) / make the required project. (4) / No error (5)

Q.14 The meeting was commenced (1) / with a detailed discussion (2) / on the projects (3) / inside the pipeline. (4) / No error (5)

Q.15 As soon as the telegram (1) / reached Nanda's house that her (2) / family set out to rescue (3) / her from the situation. (4) / No error (5)

Q.16
LAUGH
1. The act concerned over your plight and reply to your queries courteously but you get the feeling that they are laughing off your sleeve.
2. The more we blunder the louder our competitors laugh at us
3. We had the last laugh after the results of shooting competition were announced
4. For my trouble in suggesting the merger, the board members laughed me out of the room.
5. The very idea of united offensive in the Ardennes forest is something to laugh at.
Solution 16: Choice (1) is incorrect The correct idiom here is 'laugh up your sleeve' or 'laugh in your sleeve'. The rest of the usage is correct.

Q.17

CUT

1. The Alani cut a bloody path of destruction and carnage from Dacia to the shores of the Bosphorus.

2. The enemy of my enemy is your friend, but you should learn one day that it cut both ways

3. Cut off from supplies and with ammunition and food running out the German Sixth Army was forced to surrender at Stalingrad

4. He wasn't cut off for priesthood.

5. This new method of financial management is just isn't cutting it with the management

Q.18 If a number x is 10% less than another number y and y is 10% more than 125, then x is equal to what?

1. 123.75
2. 143
3. 140.55
4. 153.55
5. 123.55

Directions Q.19- Q.20: Complete the following series

Q.19. 9 11 15 23 39 ?

1. 82
2. 71
3. 56
4. 44

Q. 20. 48 23 ? 4.25 1.125

1. 2.5
2. 10.5
3. 11
4. 10

Q.21 In a box there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green ?

1. ⅔
2. ¾
3. 7/9
4. ⅓
5. 5/21

Q. 22 A sum becomes its double in 10 years. Find the annual rate of SI?

1. 5%
2. 8%
3. 10%
4. 20%
5. 15%

Directions Q. (23-25):

In each question, two equations numbered I and II are given. Solve the equations to determine the relationship between a and b. Mark the answer as:

1. If a < b
2. b. If a > b
3. c. If a ≥ b
4. d. If a ≤ b
5. e. If a = b or No Relation established

Q. 23
I. $4a^2 + 32a - 36 = 0$
II. $5b^2 - 18b + 16 = 0$

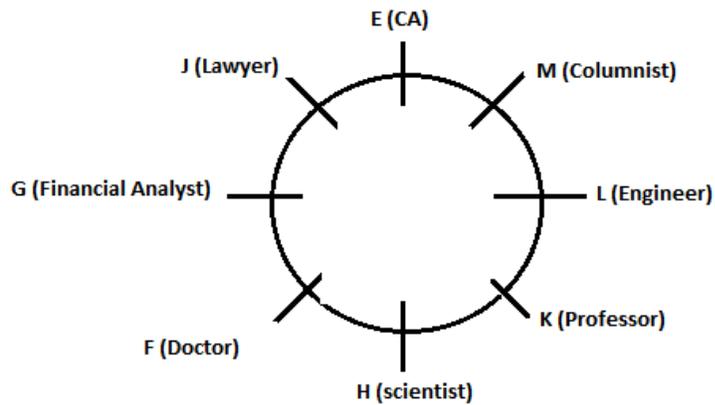Q. 24
I. $14a^2 + 51a + 7 = 0$
II. $b^2 + 2b - 63 = 0$
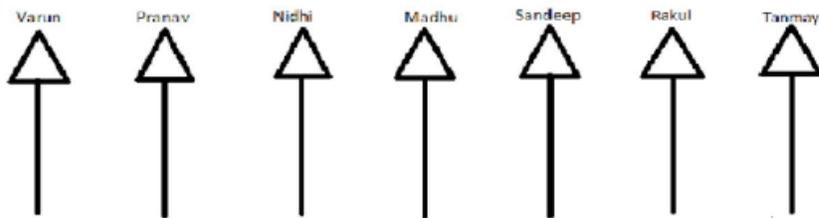
Q. 25
I. $a^3 = -2197$
II. $b^2 + 26b + 169 = 0$

Answer Key:

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

Solution (Q 1-5):

E (CA)

J (Lawyer)

M (Columnist)

G (Financial Analyst)

L (Engineer)

K (Professor)

F (Doctor)

H (scientist)

Solution (Q 6-10):

Varun   Pranav   Nidhi   Madhu   Sandeep   Rakul   Tanmay

Solution 6: (2) Rakul is fourth to the right of Pranav

Solution 7: (4) Madhu sits exactly in the middle row

Solution 8: (2) Pradeep sits to the immediate left of Neha

Solution 9: (3) In all the group the first board member is immediate left to the second board member but in the group Tanmay - Raghu, first person Tanmay is immediate right to the second person, Raghu. Thus, this pair is the odd one.

Solution 11: (5) There is no error in this sentence 'Many a/an' is used as a determiner before a singular noun that takes a singular verb.

Solution 12: (3) Singular subject takes singular verb. 'Football match' is a singular subject that will take the verb 'was' not 'were'.

Solution 13: (1) The determiner 'each' is always followed by a singular noun and a singular verb

Solution 14: (4) The idiom used is incorrect. The correct idiom is 'in the pipeline', which means in the process or que

Solution 15: (2) 'As soon as' does not require 'that'. So 'that' will have to be omitted from the sentence to make it grammatically correct.

Solution 16: Choice (1) is incorrect The correct idiom here is 'laugh up your sleeve' or 'laugh in your sleeve'. The rest of the usage is correct.

Solution 17: Answer (4) has the incorrect usage of the word 'cut'. The correct sentence should be 'He wasn't cut out for priesthood.

Solution 18: y = 125 + 10% of 125 = 125 + 12.50 = 137.50
Therefore, x = 137.50 - 10% of 137.50 = 137.50 -13.75 = 123.75

Solution 19:
9 + 2=11
11+4=15
15+8=23
23+16=39
39+32=71

Solution 20:
48 23 ? 4.25 1.125
It follows 2x + 2 series from R.H.S
1.125 x 2 + 2 = 4.25
4.25 x 2 + 2 =10.5
10.5 x 2 + 2 = 23
Hence 10.5 is the number to complete the series.

Solution 21:
Total number of balls = 8+7+6 = 21
Let E = event that ball drawn is neither red nor green
= event that the ball drawn is blue
n(E) = 7
P(E) = n(E)/n(S) = 7/21 = ⅓

Solution 22: Let the sum be ₹y then as per the question SI becomes y.
Now, y = [10 x y x R] / 100

Therefore, R = 10%

Solution 23: Statement I $\Rightarrow$ $4a^2 + 36a - 4a - 36 = 0$

$\Leftarrow 4a (a + 9) -4 (a + 9) = 0$

$\Leftarrow (4a - 4) (a +9) = 0$

$\Leftarrow a = -9, 1$

Statement II $\Rightarrow$ $5b^2 - 10b - 8b + 16 = 0$

$\Leftarrow 5b (b - 2) -8 (b - 2) = 0$

$\Leftarrow (5b - 8) (b - 2) = 0$

$\Leftarrow b = 8/5, 2$

Therefore, a < b

Solution 24: Statement I $\Rightarrow$ $14a^2 + 49a + 2a + 7 = 0$

$\Leftarrow 7a (2a + 7) + (2a + 7) = 0$

$\Leftarrow (7a + 1) (2a + 7) = 0$

$\Leftarrow a = -1/7, -7/2$

Statement II $\Rightarrow$ $b^2 + 9b - 7b - 63 = 0$

$\Leftarrow b(b + 9) - 7(b + 9) = 0$

$\Leftarrow (b + 9) (b - 7) = 0$

$\Leftarrow b = -9, 7$

Therefore, no relation established

Solution 25: Statement I $\Rightarrow$ a = -13

Statement II $\Rightarrow$ $b^2 + 13 \times 2 \times b + 13^2 = 0$

$\Leftarrow (b +13)^2 = 0$

$\Leftarrow b = -13$

Therefore, a = b