

REASONING MAINS GENIUS



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LIFE INSURANCE CORPORATION OF INDIA

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SET 01

Fourteen Zomato delivery boys – A to N delivered food in a ten storey building where the lowermost floor is numbered one and the floor immediately above it is numbered two and so on. There are three lifts Lift I, Lift II, and Lift III from west to east in the basement of the building. Each delivery boy takes lifts to deliver the food. Not more than two persons delivered food on the same floor. Also, persons delivering on the same floor take different lifts.

Note: i) The person whose name's place value is an odd number as per the alphabetical series delivered in an even numbered floor and the person whose name's place value is an even number as per the alphabetical series delivered in an odd numbered floor.

ii) No two persons delivered the food on the adjacent floors take the same lift.

F delivered the food three floors above I, where neither of them uses the same lift nor uses lift II. F did not deliver above floor number 6. Both N and H delivered below I. J does not use lift II and delivered two floors above H, where both of them use the same lift. J and D delivered on the same floor. The number of persons delivered the food below D is three more than the number of persons delivered the food above C, who did not use the same lift as N and J. Less than three floors are between the floors on which C and G delivered the food. L delivered immediately above the floor on which G delivered the food. G uses lift II. More than two floors are between the floors on which L and K delivered the food. The number of floors



between the floors on which K and I delivered the food is one less than the number of floors between the floors on which F and M delivered the food. E delivered below A but above B. E does not use lift III.

चौदह ज़ोमैटो डिलीवरी बॉय - A से N ने दस मंजिला इमारत में खाना डिलीवर किया, जहाँ सबसे निचली मंजिल को एक नंबर दिया गया है और उसके ठीक ऊपर की मंजिल को दो नंबर दिया गया है और इसी तरह आगे भी। इमारत के बेसमेंट में पश्चिम से पूर्व की ओर तीन लिफ्ट लिफ्ट I, लिफ्ट II और लिफ्ट III हैं। प्रत्येक डिलीवरी बॉय खाना देने के लिए लिफ्ट लेता है। एक ही मंजिल पर दो से अधिक व्यक्तियों ने खाना नहीं दिया। इसके अलावा, एक ही मंजिल पर खाना देने वाले व्यक्ति अलग-अलग लिफ्ट लेते हैं।

नोट: i) वह व्यक्ति जिसके नाम का स्थानीय मान वर्णमाला श्रृंखला के अनुसार एक विषम संख्या है, उसने सम क्रमांक वाली मंजिल पर डिलीवरी की है और वह व्यक्ति जिसके नाम का स्थानीय मान वर्णमाला श्रृंखला के अनुसार एक सम संख्या है

ii) आसन्न मंजिलों पर भोजन पहुंचाने वाले कोई भी दो व्यक्ति एक ही लिफ्ट नहीं लेते हैं। F ने I से तीन मंजिल ऊपर भोजन पहुंचाया, जहां उनमें से कोई भी एक ही लिफ्ट का उपयोग नहीं करता है और न ही लिफ्ट II का उपयोग करता है। F ने मंजिल संख्या 6 से ऊपर भोजन नहीं पहुंचाया। N और H दोनों ने I से नीचे भोजन पहुंचाया। J लिफ्ट II का उपयोग नहीं करता है और H से दो मंजिल ऊपर भोजन पहुंचाता है, जहां दोनों एक ही लिफ्ट का उपयोग करते हैं। J और D ने एक ही मंजिल पर भोजन पहुंचाया। D के नीचे भोजन पहुंचाने वाले व्यक्तियों की संख्या C के ऊपर भोजन पहुंचाने वाले व्यक्तियों की संख्या से तीन अधिक है, जिसने N और J के समान लिफ्ट का उपयोग नहीं किया। जिन मंजिलों पर C और G ने भोजन पहुंचाया, उनके बीच तीन से कम मंजिलें हैं। L ने उस मंजिल के ठीक ऊपर भोजन पहुंचाया जिस पर G ने भोजन पहुंचाया। जिन मंजिलों पर K और I ने भोजन पहुंचाया उनके बीच की मंजिलों की संख्या, उन मंजिलों के बीच की



मंजिलों की संख्या से एक कम है जिन पर F और M ने भोजन पहुंचाया। E ने A से नीचे लेकिन B से ऊपर भोजन पहुंचाया। E लिफ्ट III का उपयोग नहीं करता है।

SET 02

Sixteen persons - A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, and P are sitting around the two concentric circular tables as one is inscribed in another one. Eight persons are sitting on the inner table facing away from the centre. Eight persons are sitting on the outer table facing the centre. Each person sitting on the outer table faces the person sitting on the dinner table and vice versa. Note:

- The persons whose name's place value is a prime number as per alphabetical order are not sitting adjacent to each other.
- If it is given that A and B face each other, then both are sitting at different tables and if it is given that A and B sit opposite to each other, then both are sitting at the same table.

F sits third to the right of B, who is facing the centre of the table. One person sits between F and K. Two persons sit between J and the one who faces K. H sits opposite to J. L sits second to the right of the one who faces J. The number of persons sitting between L and F is two less than the number of persons sitting between J and O, who does not face K. C is an immediate neighbour of both O and P. N sits second to the left of the one who faces P. I sits to the immediate left of E. The number of persons sitting between E and C is two more than the number of persons sitting between B and A. M does not face the centre of the table.

सोलह व्यक्ति - A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, और P दो संकेंद्रित वृत्ताकार मेजों के चारों ओर बैठे हैं जैसे कि एक दूसरे के अंदर अंकित है। आठ व्यक्ति भीतरी मेज

पर केंद्र से विमुख होकर बैठे हैं। आठ व्यक्ति बाहरी मेज पर केंद्र की ओर मुख करके बैठे हैं। बाहरी मेज पर बैठा प्रत्येक व्यक्ति खाने की मेज पर बैठे व्यक्ति के सम्मुख है और इसके विपरीत। नोट:

i) वे व्यक्ति जिनके नाम का स्थानीय मान वर्णमाला क्रम के अनुसार एक अभाज्य संख्या है, एक दूसरे के आसन्न नहीं बैठे हैं।

ii) यदि यह दिया गया है कि A और B एक दूसरे के सम्मुख हैं, तो दोनों अलग-अलग मेजों पर बैठे हैं और यदि यह दिया गया है कि A और B एक दूसरे के विपरीत बैठते हैं, तो दोनों एक ही मेज पर बैठे हैं।

F, B के दाएं तीसरे स्थान पर बैठा है, जो मेज के केंद्र के सम्मुख है। F और K के बीच में एक व्यक्ति बैठा है। J और K के सम्मुख व्यक्ति के बीच में दो व्यक्ति बैठे हैं। H, J के विपरीत बैठा है। L, J के सम्मुख व्यक्ति के दाएं दूसरे स्थान पर बैठा है। L और F के बीच बैठे व्यक्तियों की संख्या J और O के बीच बैठे व्यक्तियों की संख्या से दो कम है, जो K के सम्मुख नहीं है। C, O और P दोनों का निकटतम पड़ोसी है। N, P के सम्मुख व्यक्ति के बाएं दूसरे स्थान पर बैठा है। I, E के निकटतम बाएं बैठा है। E और C के बीच बैठे व्यक्तियों की संख्या B और A के बीच बैठे व्यक्तियों की संख्या से दो अधिक है। M मेज के केंद्र के सम्मुख नहीं है।

SET 03

Eight persons viz. C, F, J, M, Q, R, S and T are writing different exams in different months between March 2019 and September 2020, but not necessarily in the same order. The exams are AIIMS, CSE, FCI, IBPS, IESE, JEE, SBI and SSC. Equal number of persons write the exam in both years.

M writes the exam in the month having 30 days in 2019. Five months between M and the one who writes CSE, where both write in the same year. The one who writes three persons after the one who writes CSE, writes in March. S neither writes in the same year as M nor in the month having 31 days. The one who writes SSC writes four months after S, where both write in the month having less than 31 days. T writes in the month immediately after the one who writes SSC but not in the same year. FCI was written in the month having 31 days but neither in May nor August. FCI was written in 2019. The number of months between M and the one who writes FCI is the same as the number of months between the one who writes FCI and SBI. C writes the exam either immediately before or immediately after the one who writes SBI. IBPS was written in the month having 31 days but not in 2019 whereas only four months between the one who writes IBPS and F who does not write FCI exam. AIIMS was not written in the month having less than 31 days and written two persons before J. Only four months are there between the months in which Q and R write the exam, where R writes the exam



immediately after the one who writes IESE. Q doesn't write CSE exam.

आठ व्यक्ति अर्थात C, F, J, M, Q, R, S और T मार्च 2019 और सितंबर 2020 के बीच अलग-अलग महीनों में अलग-अलग परीक्षाएं लिख रहे हैं, लेकिन जरूरी नहीं कि इसी क्रम में हों। परीक्षाएं AIIMS, CSE, FCI, IBPS, IESE, JEE, SBI और SSC हैं। दोनों वर्षों में बराबर संख्या में व्यक्ति परीक्षा लिखते हैं।

M 2019 में 30 दिनों वाले महीने में परीक्षा लिखता है। M और CSE लिखने वाले के बीच पांच महीने होते हैं, जहां दोनों एक ही वर्ष में लिखते हैं। CSE लिखने वाले के तीन व्यक्ति बाद लिखने वाला मार्च में लिखता है। S न तो M के समान वर्ष में और न ही 31 दिनों वाले महीने में लिखता है। SSC लिखने वाला S के चार महीने बाद लिखता है FCI 2019 में लिखी गई थी। M और FCI लिखने वाले के बीच महीनों की संख्या FCI लिखने वाले और SBI के बीच महीनों की संख्या के समान है। C, SBI लिखने वाले के या तो ठीक पहले या ठीक बाद में परीक्षा देता है। IBPS 31 दिनों वाले महीने में लिखी गई थी लेकिन 2019 में नहीं, जबकि IBPS लिखने वाले और F, जो FCI परीक्षा नहीं लिखता है, के बीच केवल चार महीने का अंतर है। AIIMS 31 दिनों से कम वाले महीने में नहीं लिखी गई थी और J से दो व्यक्ति पहले लिखी गई थी। जिन महीनों में Q और R परीक्षा लिखते हैं, उनके बीच केवल चार महीने हैं, जहां R IESE लिखने वाले के ठीक बाद परीक्षा लिखता है। Q CSE परीक्षा नहीं लिखता है।

SET 04

A family consists of nine members namely - K, L, M, N, O, P, Q, R and S. All of them were born in different months among January, February, March, April, May, June, July, August and October also in different years viz. 1967, 1972, 1975, 1979, 1984, 1989, 1992, 1993 and 1996. All the above given information is not necessarily in the same order. It is assumed that the parents should be born before the children i.e. the upper generation person is born before the lower generation person.

K was born in 1975 and is the mother-in-law of S. R was born in the month having least number of days and in an even numbered year. O is the mother of R, who is not the youngest member in the family. The person who was born in 1967 was born in August. There is a difference of nine years in between M and the person who was born in April. P is the sister-in-law of M, who was born in 1984. Q is not married to K. O was born in March. M is unmarried. There is a difference of three years in between R and the person who was born in June. Q is the grandfather of N, who was born in July. S is the only brother of R and born in the month having 31 days. L is the grandson of K and was born in October. S and M are siblings. S neither born in January nor in August. N is the only niece of R and is the second youngest member of the family. P has only one son and P is 10 years younger than her husband.



एक परिवार में नौ सदस्य हैं - K, L, M, N, O, P, Q, R और S। उन सभी का जन्म अलग-अलग महीनों जनवरी, फरवरी, मार्च, अप्रैल, मई, जून, जुलाई, अगस्त और अक्टूबर में हुआ था और साथ ही अलग-अलग वर्षों जैसे 1967, 1972, 1975, 1979, 1984, 1989, 1992, 1993 और 1996 में भी हुआ था। ऊपर दी गई सभी जानकारी जरूरी नहीं कि उसी क्रम में हो। यह माना जाता है कि माता-पिता का जन्म बच्चों से पहले होना चाहिए यानी ऊपरी पीढ़ी का व्यक्ति निचली पीढ़ी के व्यक्ति से पहले पैदा होता है।

K का जन्म 1975 में हुआ था और वह S की सास है। R का जन्म सबसे कम दिनों वाले महीने में और सम संख्या वाले वर्ष में हुआ था। O, R की माँ है M और अप्रैल में पैदा हुए व्यक्ति की उम्र में नौ वर्ष का अंतर है। P, M की सिस्टर-इन-लॉ है, जिसका जन्म 1984 में हुआ था। Q, K से विवाहित नहीं है। O का जन्म मार्च में हुआ था। M अविवाहित है। R और जून में पैदा हुए व्यक्ति की उम्र में तीन वर्ष का अंतर है। Q, N का दादा है, जिसका जन्म जुलाई में हुआ था। S, R का एकमात्र भाई है और उसका जन्म 31 दिनों वाले महीने में हुआ था। L, K का पोता है और उसका जन्म अक्टूबर में हुआ था। S और M भाई-बहन हैं। S का जन्म न तो जनवरी में हुआ और न ही अगस्त में। N, R की एकमात्र भतीजी है और परिवार की दूसरी सबसे छोटी सदस्य है। P का केवल एक पुत्र है और P अपने पति से 10 वर्ष छोटी है।

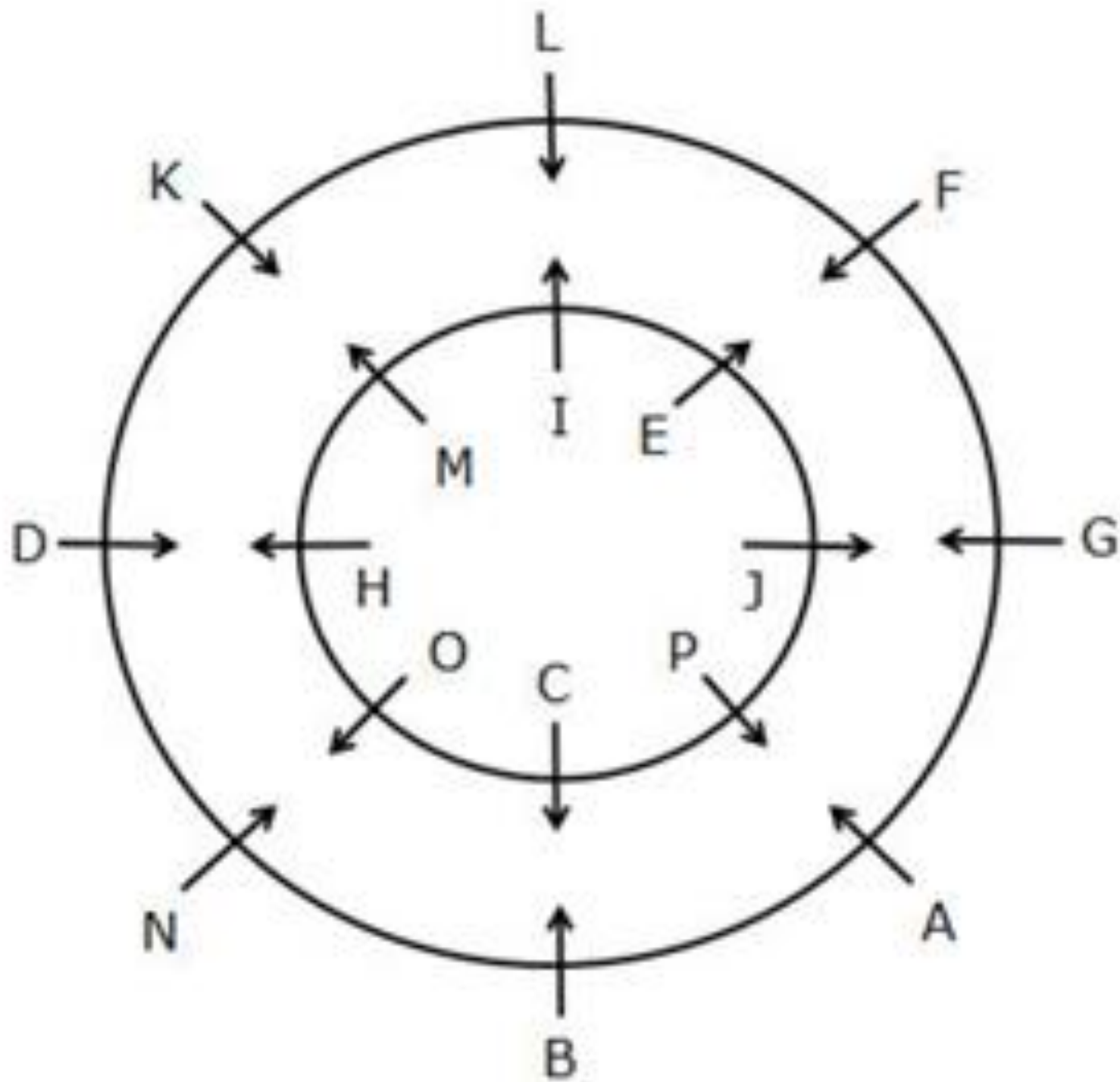
ANSWER

SET 01

FLOOR	LIFT 01	LIFT 02	LIFT 03
10	C	A	
09			L
08	M	G	
07			
06	E		
05		B	F
04	K		
03		D	J
02	I		
01		N	H



SET 02

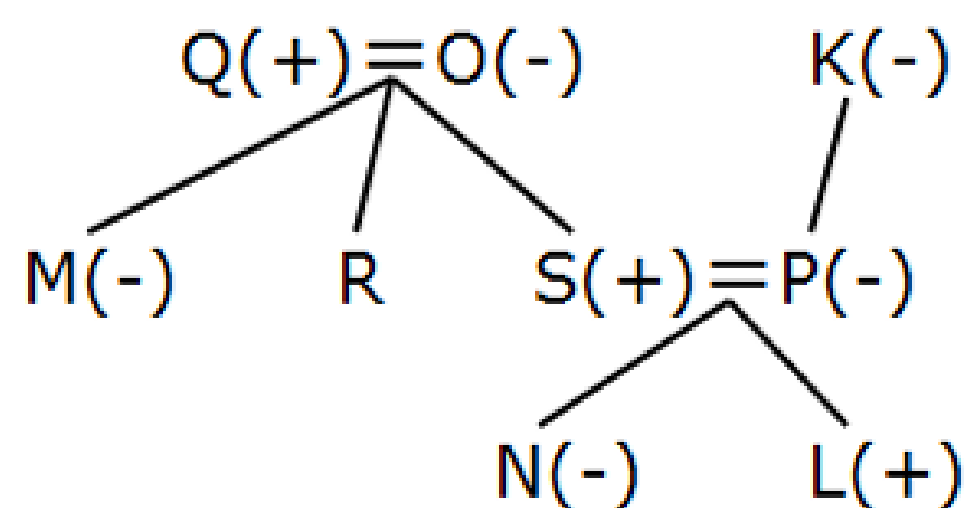


SET 03

Month & year	Person	Exam
April 2019	M	JEE
July 2019	T	AIIMS
October 2019	F	CSE
December 2019	J	FCI
February 2020	S	IESE
March 2020	R	IBPS
June 2020	C	SSC
August 2020	Q	SBI

SET 04

Name	Year	Month
K	1975	April
L	1996	October
M	1984	January
N	1993	July
O	1972	March
P	1989	June
Q	1967	August
R	1992	February
S	1979	May



SET 05 (CODING DECODING)**INPUT: 61 74 11 72 47 74 53 33 83 27****STEP 1: 14 22 04 18 22 22 16 12 22 18****STEP 2: 09 08 13 13 08 11 10 07 13****STEP 3: 18 24 52 65 48 77 80 63 130****STEP 4: 81 36 49 121 144 196 64 81 16****STEP 5: 81 35 49 121 143 195 63 81 15****STEP 6: 18 18 36 51 53 94 121 341 591**

Study the arrangement and answer the following questions accordingly for the following input:

INPUT: 70 68 41 65 31 44 90 23 81 51**1. How many even numbers are there in step 3?**

- a) 5
- b) 7
- c) 8
- d) 3
- e) 1

2. What is the sum of the third element from the left end in step 2 and the last element from the left end in step 1?

- a) 15
- b) 17
- c) 18
- d) 19



e) 13

3. What is the difference between the second element from the right end in step 4 and third element from left in step 3?

a) 51

b) 61

c) 71

d) 80

e) None of these

4. What is the unit digit of the number obtained by the difference of highest and 2nd lowest number in step5?

a) 1

b) 8

c) 3

d) 2

e) 5

5. How many repeated numbers are there in step6?

a) 3

b) 5

c) 6

d) 8

e) 4



SET 06 (DATA SUFFICIENCY)

Each of the questions below consists of statements below it. You have to decide whether the data provided in the statements are sufficient to answer the question and mark the appropriate option as answer.

1. Seven vegetables viz. A, B, C, D, E, F, and G were cooked on different days from Monday to Sunday of the same week. G was cooked after Thursday. Only two vegetables were cooked between G and C. Which of the following vegetables was cooked on the second day of the week?

- a) B was cooked immediately after C. The number of vegetables cooked before B is one less than the number of vegetables cooked after E.
- b) D was cooked two days before F. Only one vegetable was cooked between C and D. Only two vegetables were cooked between F and A. B was cooked neither before E nor immediately after E.
- c) As many vegetables cooked before C as after E. F was cooked three days before E. A was cooked adjacent to either E or F.
- d) A was cooked two days after C. Only three vegetables were cooked between A and E. Atmost one vegetable was cooked between E and F.
- e) D was cooked adjacent to neither C nor G. Only three vegetables were cooked between D and E. F was cooked five days after A.



2. Eight persons - A, B, C, D, E, F, G and H are sitting around a circular table facing the centre. E sits third to the left of D. B sits second to the left of E. Who sits second to the left of F?

- a) Two persons sit between B and F. C sits adjacent to B. More than two persons sit between C and G, when counted from the right of C.
- b) As many persons sit between D and B as E and H. G sits second to the right of A.
- c) I sits adjacent to B. G sits two places away from H.
- d) One person sits between B and G. A sits adjacent to G. C sits third to the right of F.
- e) H sits opposite to B. Two persons between H and F. G sits second to the right of F.

3. Eight persons – P, Q, R, S, T, U, V and W live on eight different floors of an eight storey building where the bottommost floor is numbered 1 and the topmost floor is numbered 8. R lives on one of the even numbered floors. Only three floors between R and T. Who lives two floors above T?

- a) As many floors above T as below P. Only two floors between P and W. Q lives four floors above W. S lives adjacent floor of neither T nor W.
- b) Q lives two floors below T. As many floors above Q as below W. Only one floor between W and P.



c) The number of floors between R and T is one more than the number of floors between R and W. Q lives two floors above W. Not less than three floors between W and S.

d) Only two floors between R and W. Q lives four floors below W. As many floors above W as below P. U lives adjacent to P.

e) Q lives three floors below R. The number of floors between R and Q is one less than Q and W. P lives immediately above W. Only two floors between P and S.

4. Six persons – E, G, J, K, T and W have different number of Toys. Atmost one person has less number of toys than W. Who among the following person has the second highest number of Toys?

a) J has more toys than W but less than T. K has more toys than J and T but less than E. G has more toys than T but less than E.

b) T has less toys than J but more than K. G has more toys than K but does not have the second highest number of toys.

c) T has more toys than J but less than K. G has more toys than K.

d) Either a or b

e) None of these

5. There are six members in the family. Two married members and each married couple have at least one child. How Q is related to R?

- a) R is the mother of Q. U is the son of R's only son.
- b) U is the son of Q's brother. M is the only son of E, who is the father-in-law of T.
- c) T is the only daughter-in-law of E. M is the father of U, who is the nephew of Q.
- d) U is the daughter of Q's brother. M is the only son of E, who is married to R.
- e) None of these



ANSWER

SET 05

1. Answer: (C)

2. Answer: (b)

3. Answer: (b)

4. Answer: (d)

5. Answer: (a)

Explanation:

In the first step, the digits of each number are added and then the resultant number is multiplied by 2.

In the second step, the sums of the digits of two consecutive numbers are added.

In the third step, the numbers are simultaneously multiplied by 2,3,4 and so on.

In the fourth step, the digits of each number are added and then square the resultant number.

In the fifth step, all the even digits are reduced by 1 for all the numbers.

In last step, the digits are reversed and arranged in increasing order.

So, for the given input,

INPUT: 70 68 41 65 31 44 90 23 81 51

STEP 1: 14 28 10 22 08 16 18 10 18 12

STEP 2: 15 11 05 12 15 16 10 10 12

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STEP 3: 30 33 20 60 90 112 80 90 120

STEP 4: 09 36 04 36 81 16 64 81 09

STEP 5: 09 35 03 35 81 15 63 81 09

STEP 6: 18 18 30 36 51 53 53 90 90

SET 06

1. Answer: B

2. Answer: D

3. Answer: A

4. Answer: E

5. Answer: E

GIVE YOUR FEEDBACK IN COMMENT SECTION

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