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PT Set No 191

Directions: Study the following information carefully and answer the questions given beside.

Eight persons namely P to W graduated in different years among 2003, 2005, 2009, 2010, 2012, 2013, 2015 and 2018. Each of them graduated in different degree among B.E, M.E, B.S.C, B.A, M.S.C, M.A, M.B.A and B.B.A. Each of them secured different percentage among 63, 67, 71, 74, 79, 85, 88 and 91. All the above information is not necessarily in the same order.

P graduated in M.B.A in 2012. S graduated before V, who graduated in _____ degree (I). S graduated in M.S.C and secured 79%. Number of persons graduated after W is same as before T, who graduated in B.A. The one, who graduated in B.E, graduated in _____ (II) year. The one, who graduated in B.S.C, secured even numbered percentage. Three persons graduated between the one, who graduated in M.A and V. One person graduated between S and V, who secured 63%. _____ (III) graduated immediately after T and he secured 88%. The one, who secured 79%, graduated in even numbered year. Number of persons graduated before the one, who graduated in M.A is same as after the one, who graduated in B.B.A. Two persons graduated between P and W, who secured _____ (IV) %. R graduated immediately before W and he secured 85%. Three persons graduated between the one, who secures 85% and the one, who secures 67%. Difference between the percentage secured by the one, who graduated in M.E and the one, who graduated in B.A is _____ (V). Q secured less percentage than P but more percentage than U. The one, who graduated in M.E neither secured 63% nor graduated in 2018.

1. Which among the following will fill blank (II)?

- A. 2003 B. 2018 C. 2013 D. 2009 E. None of these

2. Which among the following will fill blank (V)?

- A. 24% B. 8% C. 4% D. 20% E. Can't be determined

3. Which among the following will fill blank (III)?

- A. U B. Q C. V D. Either A or B E. Either A or C

4. Which among the following will fill blank (I)?

- A. M.E. B. B.E. C. B.B.A. D. M.A E. None of these

5. Which among the following will fill blank (IV)?

- A. 67% B. 71% C. 91% D. 74% E. Can't be determined

Correct Answers:

1	2	3	4	5
C	C	B	B	D



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Common explanations :

References

P graduated in M.B.A in 2012.

Two persons graduated between P and W, who secured _____ (IV) %.

R graduated immediately before W and he secured 85%

Three persons graduated between the one, who secures 85% and the one, who secures 67%.

Inferences

From above statements,

Reference point-1 is direct information.

As per 2nd reference point W is graduated either in 2005 or 2018 (2 persons graduated between P and W). Thus we get two possibilities.

Case-1: Here W graduated in 2005. This implies R graduated in 2003 and he secured 85%. Finally, 3 persons graduated between R (85%) and the one, who secures 67%. This implies that the one who secured 67%, graduated in 2012 i.e. P as per arrangement.

Case-2: Here W graduated in 2018. This implies R graduated in 2015 and he secured 85%. Finally, 3 persons graduated between R (85%) and the one, who secures 67%. This implies that the one who secured 67%, graduated in 2009.

By using above information we get the following table as shown,

Case-1			
Year	Person	Degree	Percentage
2003	R		85
2005	W		
2009			
2010			
2012	P	M.B.A	67
2013			
2015			
2018			

Case-2			
Year	Person	Degree	Percentage
2003			
2005			
2009			67
2010			
2012	P	M.B.A	
2013			
2015	R		85
2018	W		

References

Number of persons graduated after W is same as before T, who graduated in B.A.

_____ (III), who graduated immediately after T and he secured 88%.

Inferences

From above statements,

Case-1: Here T graduated in 2015 i.e. 6 persons graduated after W similarly 6 persons graduated before T. T graduated in B.A (reference point-1). As per 2nd reference point the one, who secured 88%, graduated in 2018.

Case-2: Here T graduated in 2003 i.e. no person graduated after W similarly no person graduated before T. T graduated in B.A (reference point-1). As per 2nd reference point the one, who secured 88%, graduated in 2005.

By using above information we get the following table as shown,

Case-1			
Year	Person	Degree	Percentage
2003	R		85
2005	W		
2009			
2010			
2012	P	M.B.A	67
2013			
2015	T	B.A	
2018			88

Case-2			
Year	Person	Degree	Percentage
2003	T	B.A	
2005			88
2009			67
2010			
2012	P	M.B.A	
2013			
2015	R		85
2018	W		

References

S graduated in M.S.C and secured 79%

The one, who secured 79%, graduated in even numbered year.

One person graduated between S and V, who secured 63%.

S graduated before V, who graduated in _____ degree (I).

Inferences

From above statements,

By combining 1st and 2nd reference points, S graduated in MSC, S secured 79% and S graduated in even numbered years.

To satisfy this condition there is only one possibility for each case i.e. S graduated in 2010.

As per 3rd and 4th reference point, 1 person graduated between S and V. S graduated before V. V secured 63%. Therefore V graduated in 2013 (for each case).

By using above information we get the following table as shown,

Case-1			
Year	Person	Degree	Percentage
2003	R		85
2005	W		
2009			
2010	S	M.S.C	79
2012	P	M.B.A	67
2013	V		63
2015	T	B.A	
2018			88

Case-2			
Year	Person	Degree	Percentage
2003	T	B.A	
2005			88
2009			67
2010	S	M.S.C	79
2012	P	M.B.A	
2013	V		63
2015	R		85
2018	W		

References

Three persons graduated between the one, who graduated in M.A and V.

Number of persons graduated before the one, who graduated in M.A is same as after the one, who graduated in B.B.A.

Inferences


From above statements,

We know V graduated in 2013 (both cases). Therefore the one, who graduated in M.A, is graduated in 2005 (3 persons graduated between them, reference points-1)

Case-1: As per 2nd reference point, 1 person graduated before the one, who graduated in M.A. Therefore 1 person must graduate after the one, who graduated in B.B.A. But in this case there is no place since it is occupied by the one, who graduated in B.A. Therefore case-1 can be eliminated.

Case-2: As per 2nd reference point, 1 person graduated before the one, who graduated in M.A. Therefore 1 person must graduate after the one, who graduated in B.B.A. Therefore the one, who graduated in B.B.A, graduated in 2015.

By using above information we get the following table as shown,



Case-1 [Eliminated]			
Year	Person	Degree	Percentage
2003	R		85
2005	W	M.A	
2009			
2010	S	M.S.C	79
2012	P	M.B.A	67
2013	V		63
2015	T	B.A	
2018			88

Case-2			
Year	Person	Degree	Percentage
2003	T	B.A	
2005		M.A	88
2009			67
2010	S	M.S.C	79
2012	P	M.B.A	
2013	V		63
2015	R	B.B.A	85
2018	W		

References

The one, who graduated in M.E neither secured 63% nor graduated in 2018.

The one, who graduated in B.S.C, secured even numbered percentage.

The one, who graduated in B.E, graduated in _____ (II) year.

Q secured less percentage than P but more percentage than U.

Difference between the percentage secured by the one, who graduated in M.E and the one, who graduated in B.A is _____ (V)

Inferences

From above statements,

As per 1st reference point, the one, who graduated in M.E, must graduate in 2009 and he secured 67% (only possibility as per table) since he doesn't secure 63% and he not graduated in 2018.

Remaining percentages left are 71, 74, and 91.

Given, the one, who graduated in B.S.C, secured even numbered percentage. Therefore he must secure 74% (even number, only possibility) i.e. W graduated in B.S.C and secured 74% as per table.

This implies V graduated in B.E and graduated in 2013 (only person left among given)

Given, $Q < P$ and $Q > U$ i.e. by combining $P > Q > U$.

To satisfy this condition Q must secure 88% and U must secure 67 % (only possibility as per table arrangement)

This implies P must secure 91%. Thus $P (91\%) > Q (88\%) > U (67\%)$, condition satisfied.

Finally, T secured 71% (only person left among given) and he graduated in B.A

As per last reference point, the difference between the percentage secured by the one, who graduated in M.E and the one, who graduated in B.A is 4 ($71 - 67 = 4$)

All the given conditions satisfied and we get the completed table in Case-2 as shown below.

Case-2			
Year	Person	Degree	Percentage
2003	T	B.A	71
2005	Q	M.A	88
2009	U	M.E	67
2010	S	M.S.C	79
2012	P	M.B.A	91
2013	V	B.E	63
2015	R	B.B.A	85
2018	W	B.S.C	74

Answers :

1. Following the common explanation, we get "2013".

The one, who graduated in B.E, graduated in _____ (II) year.

The one, who graduated in B.E, graduated in 2013 i.e. V

Hence, option C is correct.

2. Following the common explanation, we get "4%".

Difference between the percentage secured by the one, who graduated in M.E and the one, who graduated in B.A is _____ (V)

U graduated in M.E and secured 67% and T graduated in B.A and secured 71%

Difference, $71\% - 67\% = 4\%$

Hence, option C is correct.

3. Following the common explanation, we get "Q".

_____ (III), who graduated immediately after T and he secured 88%.

Q, who graduated immediately after T, and he secured 88%.

Hence, option B is correct.

4. Following the common explanation, we get "B.E".

S graduated before V, who graduated in _____ degree (I).

S graduated before V, who graduated in B.E.

Hence, option B is correct.

5. Following the common explanation, we get "74%".

Two persons graduated between P and W, who secured _____ (IV) %.

Two persons graduated between P and W, who secured 74%.

Hence, option D is correct.



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