Puzzle test for SBI PO Mains, IBPS PO Mains and RBI Grade B Exams.

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

Twelve persons E, F, G, H, I, J, K, L, N, O, P and R are attending the interview on six different days of the week starting from Monday to Saturday, but not necessarily in the same order. Two persons attend the interview on each day in fore noon (FN) and after noon (AN). Each one of them scored different marks in the written examination. Persons who are scoring even number marks attend the interview before the person who scored odd number marks in a day. Number of persons scored even number of marks is equal to the number of persons scored odd number of marks.

J attends the interview on the day in which one who scored 97 marks attends the interview. One who scored 84 marks attends the interview on Saturday. The sum of the marks scored by the persons who are attending the interview on Tuesday is 205. Four persons attend the interview between P and G. Only one person attends the interview before the one who scored highest marks. J attends the interview before Thursday. G attends the interview after Thursday. P does not score even number of marks. H attends the interview immediately before O who attends the interview on Thursday but not in same day. J and H do not attend the interview on the same day of the week. No one scored below 80 marks. N and F attend the interview on the same day of the week. As many persons attend the interview between E and O as between G and K. L scored 85 marks but does not attend the interview on the same day as G attends. R attends the interview on the day in which one who scored 88 marks attends. R does not attend the interview on Wednesday. More than two persons attend the interview after N. O does not score 88 marks. F scored 3 marks more than N. Eight persons attend the interview between one who scored 116 marks and 91 marks. Persons who are scoring more than 100 marks attend the interview before Wednesday. E scored 94 marks. H scored 1 mark less than G. R scored 5 marks less than O and two marks less than the person who attends the interview on the same day as K.

1. **If all the persons attend the interview alphabetically then who among the following attend the interview in the same order as before?**

A. Only F and L   B. Only E and R   C. Only G and L   D. Only F and E   E. Only R and K

2. **How many persons attend the interview after the one who scored 87 marks?**

A. Six   B. Five   C. Four   D. Three   E. None of these

3. **Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to the group?**

A. NF   B. JP   C. HE   D. RG   E. EL

4. **What is sum of the marks scored by F and O?**

A. 225   B. 220   C. 215   D. 195   E. None of these

5.   **Which of the following combinations is false?**

A. Monday-116 and 119

B. Tuesday-108 and 97

C. Wednesday-94 and 87

D. Friday-96 and 85

E. Saturday-84 and 93

Correct Answers:

1	2	3	4	5
A	A	E	C	D

Common explanation :

<u>**References**</u>

Twelve persons E, F, G, H, I, J, K, L, N, O, P and R are attending the interview on six different days of the week starting from Monday to Saturday, but not necessarily in the same order.

Two persons attend the interview on each day in fore noon (FN) and after noon (AN).

Each one of them scored different marks in the written Examination.

Persons who are scoring even number marks attend the interview before the person who scored odd number marks in a day.

Number of persons scored even number of marks is equal to the number of persons scored odd number of marks.

<u>**Inferences**</u>

From above statements and conditions,

- o   Two persons attend the interview on each day at fore noon (FN) and after noon (AN).
- o   Persons who are scoring even number marks attend the interview before the person who scored odd number marks in a day. Thus, we clearly conclude that, **persons who scored even number of marks attend the interview at Fore noon (FN) and persons who scored odd number marks attend the interview at After noon (AN)**
- o   Number of persons scored even number of marks is equal to the number of persons scored an odd number of marks. Thus, **out of 12 people, 6 of them scored even number marks & attend the interview at fore noon (FN) and remaining 6 of them scored odd number of marks & attends the interview at after noon (AN).**

<u>**References**</u>
The sum of the marks scored by the persons who are attending the interview on Tuesday is 205.

One who scored 84 marks attends the interview on Saturday.

Only one person attends the interview before the one who scored highest marks.

<u>**Inferences**</u>
From above statements,

- o   Total marks scored by two candidates (FN & AN) on Tuesday is 205.
- o   One who scored 84 marks attends the interview on Saturday (Fore noon)
- o   Only one person attends the interview before the one who scored highest marks. From this condition, **we can easily understand that the person who scored highest marks attends the interview on Monday afternoon, by this only one person attends the interview before him/her i.e. at Monday forenoon.**

From above information and conditions, we form a initial table as shown in fig

Days	Even Number [FN]		Odd Number [AN]		Total Marks
	Person	Marks	Person	Marks	
Monday				High Mark	
Tuesday					205
Wednesday					
Thursday					
Friday					
Saturday		84			

References

H attends the interview immediately before O who attends the interview on Thursday but not in same day.

J attends the interview before Thursday.

J and H do not attend the interview on the same day of the week.

J attends the interview on the day in which one who scored 97 marks attends.

Eight persons attend the interview between one who scored 116 marks and 91 marks.

Persons who are scoring more than 100 marks attend the interview before Wednesday.

Inferences

From above statements,

- o H attends the interview immediately before O who attends the interview on Thursday. [Here, O attends the interview on Thursday. H attends the interview immediately before O but not in same day. Then, O must attend the interview on Thursday (forenoon & score even numbered marks) and H attends the interview on Wednesday (after noon & score odd numbered marks) is the only possibility to make immediate before possible.
- o J attends the interview before Thursday. So J attends the interview on either Monday/Tuesday/Wednesday. But given, J and H (attend Wednesday) do not attend the interview on same day. Therefore J attends either Monday/Tuesday.
- o J attends the interview on the day in which one who scored 97 marks attends. [Here, clearly we can understand that, J scored even number marks & someone attends the interview with J scored 97 marks (Odd number).
- o If J attends the interview on Monday (FN), then 97 must be the highest mark among all 12 persons. But given, someone scored 116 marks also & 8 persons attend the interview between 116 and 91. So clearly it reveals that the J does not attend the interview on Monday.
- o **Now, only possibility is that J attends the interview on Tuesday [FN] and the person who scored 97 attends the interview on Tuesday [AN]**

- o **Given, Total Marks (Tuesday by two candidates) = 205 then if one scored 97 then the other scored 205 – 97 = 108 marks. That is J.**
- o Persons who are scoring more than 100 marks attend the interview before Wednesday. Therefore, the persons who scored more than 100 marks attend the interview on either Monday [FN] or Tuesday [FN] [Note : J attends Tuesday[FN] = 108 Marks]
- o **Eight persons attend the interview between one who scored 116 marks and 91 marks.** [Here clearly understand that, the person who scored 116 marks (Even Number) attends the interview on Monday [FN] and the person who scored 91 Marks (Odd Number) attends the interview on Friday [AN], by this 8 people attends the interview in between.

From all above given statements & explanations we get the following table,

Days	Even Number [FN]		Odd Number [AN]		Total Marks
	Person	Marks	Person	Marks	
Monday		116		High Mark	
Tuesday	J	108		97	205
Wednesday			H		
Thursday	O				
Friday				91	
Saturday		84			

References

Four persons attend the interview between P and G.

P does not score even number of marks.

G attends the interview after Thursday.

E scored 94 marks.

O does not score 88 marks.

R attends the interview on the day in which one who scored 88 marks attends.

R does not attend the interview on Wednesday.

Inferences

From above statements,

- o **P does not score even number of marks**. Then, P must score odd number marks & attends the interview on Afternoon session. **Four persons attend the interview between P and G.** By this statement, G automatically comes in forenoon session & scored even number of marks. **Now, as per the above table, the only possibility is P attends the interview on Tuesday [AN & scored 97 marks] and G attends the interview on Friday [FN & even number marks]**

- o E scored 94 marks. Now, E attends the interview on Wednesday [FN & even number marks] is only possibility as per the table,
- o **R attends the interview on the day in which one who scored 88 marks attends. O does not score 88 marks. R does not attend the interview on Wednesday.** Now, according to the table, G scored 88 marks [Friday – FN – Even Number] and R scored 91 Marks [Friday – AN – Odd Number]

From all above given statements & explanations we get the following table,

Days	Case:1				
	Even Number [FN]		Odd Number [AN]		Total Marks
	Person	Marks	Person	Marks	
Monday		116		High Mark	
Tuesday	J	108	P	97	205
Wednesday	E	94	H		
Thursday	O	~~88~~			
Friday	G	88	R	91	
Saturday		84			

References

N and F attend the interview on the same day of the week.

More than two persons attend the interview after N

F scored 3 marks more than N.

H scored 1 mark less than G.

No one scored below 80 marks.

R scored 5 marks less than O and two marks less than the person who attend the interview on the same day as K.

As many persons attend the interview between E and O as between G and K.

L scored 85 marks but does not attend the interview on the same day as G attends.

Inferences

From above statements,

- o **More than two persons attend the interview after N. N and F attend the interview on the same day of the week.** [Clearly, we get a clue that, N does not attend the interview on Saturday. Now only possibility is N and F attends the interview on Monday as per the table.

Calculation Table:		
1	Given, F scored 3 marks more than N. F = 3 + N	If F = 116 then N = 116 – 3 = 113 (Not Highest Marks, thus it is not possible) **If N = 116, then F = 3 + 116 = 119 (Highest marks among 12 person)** **Therefore N scored 116 Marks & attends the interview on Monday forenoon** **F scored 119 Marks & attends the interview on Monday afternoon**.
2	H scored 1 mark less than G. H = G – 1	Here, G = 88 (Refer above table), then H = 88 – 1 = 87 **Thus, H scored 87 marks** & **attends the interview on Wednesday afternoon.**
3	R scored 5 marks less than O R = O – 5	Here, R = 91 then, 91 = O – 5 → O = 91 + 5 → O = 96 **Thus, O scored 96 marks** & **attends the interview on Thursday forenoon.**
4	As many persons attend the interv- -iew between E and O as between G and K.	Here, <u>**there is one person (H) attends the interview between E and O**</u> Therefore, there must be one person between G and K. As per above table, K must attend the interview on Saturday Forenoon session & scored even number marks. By this, <u>**There is one person (R) attends the interview between G and K**</u>
5	R scored two marks less than the person who attends the interview on the same day as K.	Remaining Persons are I and L. <u>**L = 85 Marks (Odd number, Afternoon session)**</u> <u>**R = 91 Marks, & R scored 2 marks less than the person who attends the interview on the same day as K.**</u> <u>**Therefore, he/she must score 93 Marks. Then it must be I**</u> <u>**i.e. I = 93, I attends the interview on Saturday afternoon with K.**</u> <u>**Condition: R = I – 2, 91 = I – 2, Then I = 91 + 2 = 93 Marks**</u>
6	L scored 85 marks but does not attend the interview on the same day as G attends.	<u>**L = 85 Marks (Odd number, Afternoon session)**</u> <u>**L attends the interview on Thursday afternoon session**</u>

From all above given statements, explanations and calculations we get the final completed table,

Days	Case:1				
	Even Number [FN]		Odd Number [AN]		Total Marks
	Person	Marks	Person	Marks	
Monday	N	116	F	119	235
Tuesday	J	108	P	97	205
Wednesday	E	94	H	87	181
Thursday	O	96	L	85	181
Friday	G	88	R	91	179
Saturday	K	84	I	93	177

Explanations:

1.   The following common explanation, we get **"Only F and L".**

Refer above table, From E to P arranged from Monday to Saturday. Only F and L remains in the same place.

Hence, option A is correct.

2.   The following common explanation, we get **"Six persons".**

H-87 attend interview on Wednesday Afternoon. After that 6 persons were attend the interview.

Hence, option A is correct.

3.   The following common explanation, we get **"EL"** attends the interview on different days.

Remaining 4 pairs are the ones who attend the interview on same day.

Hence, option E is correct.

4.   The following common explanation, we get **"215".**

F-119, O = 96 then Sum = 119+96 = 215

Hence, option C is correct.

5.   The following common explanation, we get **"Friday-96 and 85".**

Correct answer: Friday 88 and 91

Hence, option D is correct.