

NTS GAT General Past Paper

Analytical – Exam No. 11

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The administrator of a commercial designing Firm is scheduling exactly six tasks J, K, L, M, N, and O for a particular week, Monday through Saturday. Each task can be completed in one full day, and exactly one task will be scheduled for each day. The tasks must be scheduled according to the following conditions:

J must be completed sometime before L is completed.

M must be completed on the day immediately before or the day immediately after the day on which O is completed.

N must be completed on Thursday.

Solution:

J	K	L	M	N	O
Mon	Tue	Wed	Thu	Fri	Sat

R1: $J > L$

R2: $M = O \pm 1$

R3: $N = \text{Thu}$

Questions:

1. Any of the following could be completed on Saturday EXCEPT:

- (A) J
- (B) K
- (C) L
- (D) M
- (E) O

Solution:

As we know from R1 that task J must be completed sometime before task L is completed; it means task J cannot be completed on Saturday, so option A is correct.

2. Which of the following is an acceptable schedule of tasks for the week?

Option	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
(A)	J	K	M	N	O	L
(B)	J	N	L	O	M	K
(C)	K	O	M	N	L	J
(D)	M	O	J	N	K	L
(E)	O	J	M	N	L	K

Solution:

Applying excluding rule:

R1 Option C is wrong.

R2 Option A and option E are wrong.

R3 Option B is wrong.

So, option D is correct.

3. If K is completed on Wednesday, which of the following could be true?

- (A) J is completed on Tuesday.
- (B) L is completed on Monday.
- (C) L is completed on Friday.
- (D) M is completed on Monday.
- (E) O is completed on Thursday.

Solution:

Rules		Mon	Tue	Wed	Thu	Fri	Sat
Q				K			
R3				K	N		
R2	P1	M/O	M/O	K	N		
	P2			K	N	M/O	M/O
R1	P1	M/O	M/O	K	N	J	L
	P2	J	L	K	N	M/O	M/O

So, option D is correct.

4. If O is completed on Monday, which of the following must be true?

- (A) J is completed sometime before K.
- (B) J is completed sometime before N.
- (C) K is completed sometime before L.
- (D) N is completed sometime before K.
- (E) N is completed sometime before L.

Solution:

Rules		Mon	Tue	Wed	Thu	Fri	Sat
Q		O					
R3					N		
R2		O	M		N		
R1	P1	O	M	J	N	L	
	P2	O	M	J	N		L
	P3	O	M		N	J	L
Remai- ing	P1	O	M	J	N	L	K
	P2	O	M	J	N	K	L
	P3	O	M	K	N	J	L

Option A, option B, option C and option D can be true, so option E is correct.

5. If J is completed on Tuesday, which of the following must be true?

- (A) K is completed on Monday.
- (B) L is completed on Thursday.
- (C) L is completed on Saturday.
- (D) M is completed on Wednesday.
- (E) O is completed on Saturday.

Solution:

Rules	Mon	Tue	Wed	Thu	Fri	Sat
Q		J				
R3		J		N		
R2		J		N	M/O	M/O
R1		J	L	N	M/O	M/O
Remaining	K	J	L	N	M/O	M/O

So, option A is correct.

6. If M is completed on Tuesday, any of the following could be true EXCEPT:

- (A) J is completed on Monday.
- (B) K is completed on Saturday.
- (C) L is completed on Wednesday.
- (D) L is completed on Friday.
- (E) O is completed on Wednesday.

Solution:

Rules		Mon	Tue	Wed	Thu	Fri	Sat
Q			M				
R3			M		N		
	P1	O	M		N		

R2	P2		M	O	N		
R1	P1	O	M	J	N	L	
	P2	O	M	J	N		L
	P3	J	M	O	N	L	
	P4	J	M	O	N		L
Remai- ning	P1	O	M	J	N	L	K
	P2	O	M	J	N	K	L
	P3	J	M	O	N	L	K
	P4	J	M	O	N	K	L

So, option C is correct.

7. If K is completed on Friday, which of the following must be true?

- (A) J is completed on Monday.
- (B) J is completed on Wednesday.
- (C) L is completed on Saturday.
- (D) M is completed on Monday.
- (E) O is completed on Tuesday.

Solution:

Rules		Mon	Tue	Wed	Thu	Fri	Sat
Q						K	
R3					N	K	
R2	P1	M/O	M/O		N	K	
	P2		M/O	M/O	N	K	
R1	P1	M/O	M/O	J	N	K	L
	P2	J	M/O	M/O	N	K	L

Option A, option B, option D and option E can be true, so option C is correct.