

NAT II Physical Science Analytical

Sr	Questions	Answers Choice
1	<p>In a factory control room, there are three ON-OFF switches on the central control panel, labeled A, B and C. They are changed from default setting to a required setting based on the following rules:</p> <p>In case only switch A is ON in the default setting, then turn switch B ON.</p> <p>In case switches A and B are the only switches ON in the default setting, then turn switch C ON. In case all the three switches are ON, in default setting, then turn the switch C OFF. For any other default setting, turn ON all switches that are OFF and turn OFF all switches, if any, that are ON.</p> <p>Q: In case, in default setting the switches A and B are ON and the switch C is OFF, then what could be the second setting?</p>	<p>A. A ON, B ON, C ON. B. A ON, B OFF, C ON. C. A ON, B OFF, C OFF. D. A OFF, B ON, C OFF. E. A OFF, B OFF, C ON.</p>
2	<p>An observatory is setting up a schedule for school children to view a returning comet. Five school classes K, L, N, O, and P-will each view the comet exactly once during the four nights. Monday through Thursday, of its maximum brightness. Excellent viewing conditions 'are predicated for all four nights. The scheduling is subject to the following constraints:</p> <p>At most two classes can view the comet on any given night.</p> <p>Class K cannot view the comet on the same night that Class N does.</p> <p>Class L must view the comet on a night prior to the night when Class P views the comet.</p> <p>Class O must view the comet on the same night that Class P does.</p> <p>Q: If Class N Views the comet on Thursday, which of the following could be true?</p>	<p>A. Class P views the comet on Tuesday. B. Class O views the comet on Thursday. C. Class L views the comet on Tuesday. D. Class L views the comet on Wednesday. E. Class K views the comet on Thursday.</p>
3	<p>An observatory is setting up a schedule for school children to view a returning comet. Five school classes K, L, N, O, and P-will each view the comet exactly once during the four nights. Monday through Thursday, of its maximum brightness. Excellent viewing conditions 'are predicated for all four nights. The scheduling is subject to the following constraints:</p> <p>At most two classes can view the comet on any given night.</p> <p>Class K cannot view the comet on the same night that Class N does.</p> <p>Class L must view the comet on a night prior to the night when Class P views the comet.</p> <p>Class O must view the comet on the same night that Class P does.</p> <p>Q: If Class O can view the comet neither on Wednesday nor on Thursday, which of the following must be true?</p>	<p>A. Class K view s the comet on Monday. B. Class L views the comet on Monday. C. Class L views the comet on Tuesday. D. Class N views the comet on Wednesday. E. Class views the comet on Thursday.</p>
4	<p>Four captains and the first mates of three of them were called to attend the annual meeting at head quarter. The captains were Luqman, Manzoor, Nauman and Osaf; the first mates were Ayesha, Durya and Gia. Each person in turn delivered a report to the chairperson as follows:</p> <p>Each of the first mates delivered their report exactly after her captain. The first captain to speak was Manzoor, and captain Nauman spoke after him.</p> <p>(Represent the person with first letter of his name)</p> <p>Q: Among the following statements, which would make M, D, N, G, L, O, A the only possible sequence of speakers?</p>	<p>A. D is M's first mate; G is N's first mate; A is O's first mate. B. D is M's first mate; G is N's first mate; A was the second to speak after L. C. The order of the first four speakers was M, D, N G. D. The order of the last three speakers was L,O, A. E. The order in which the captains spoke was M, N, L, O.</p>

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Q: In case L speaks after A, and A is the third of the first mates to speak, then among the following statements which would be urtrue?

- A. O spoke immediately after G
B. The order of the first four speakers was M, G, N, D
C. O's first mate was present
D. A was the fourth speaker after M
E. The captains spoke in the order M, N, O, L

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Q: In case A spoke immediately after L and immediately before O, and O was not the last speaker, L spoke

- A. Second
B. Third
C. Fourth
D. Fifth
E. Sixth

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Q: Among the following statements, which statement must be true?

- A. In case the second speaker was a captain, the seventh speaker was a first mate.
B. In case the second speaker was a first mate, the seventh speaker was a captain.
C. In case the third speaker was a first mate, the seventh speaker was a captain.
D. In case the third speaker was a captain, the seventh speaker was a first mate.
E. In case the seventh speaker was a first mate, the first & third speakers were captains.

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Q: In case A is the third of the first mates to speak, and L is the captain whose first mate is nor present, which among the following statements must be true?

- A. A spoke sometime before L.
B. D spoke sometime before O.
C. L spoke sometime before O.
D. O spoke sometimes before L.
E. O spoke sometime before N.

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Q: Which of the following order of delivering report is not conformable with the conditions?

- A. M, A, N, G, O, L, D
B. M, D, N, G, L, O, A
C. M, N, A, L, D, O, G
D. M, N, A, O, D, L, G
E. M, N, G, D, O, L, A

Nine Individuals – Z, Y, X, W, V, U, T, S AND R are the only candidates, who can serve on three committees labeled A, B and C.

Each candidate should serve on exactly one of the committees

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10

Committee A should consist of exactly one member more than that of committee.

It is possible that there are no members of committee C. Among Z, Y and X none can serve on committee A. Among W, V and U none can serve on committee C. Among T, S and R none can serve on committee C.

Q: Among the following combinations which could constitute the membership of committee C?

- A. Y and T
- B. X and U
- C. Y, X and W
- D. W, V and U
- E. Z, X, U and R