

NAT II Management Science Analytical

Sr	Questions	Answers Choice
1	<p>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.</p> <p>Each candidate should serve on exactly one of the committees.</p> <p>Committee A should consist of exactly one member more than that of committee.</p> <p>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.</p> <p>Q: In case R is the only individual serving on committee B, which among the following should serve on committee A?</p>	<p>A. W and S B. V and U C. V and T D. U and S E. T and S</p>
2	<p>Multan Institute of Higher Studies plans to show five educational films A, B, C, D and E to a group of students. The film shows are planned in an order, which conforms to the following conditions:</p> <p>A must be shown earlier than C.</p> <p>B must be shown earlier than D.</p> <p>E should be the fifth film shown.</p> <p>Q: In case D and E are shown as far apart from each other as possible, which among the following would be true?</p>	<p>A. A is shown earlier than B B. B is shown earlier than C C. C is shown earlier than E D. D is shown earlier than A E. E is shown earlier than B</p>
3	<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, only switch B is ON in the second setting. Which of the following could have been the default setting?</p>	<p>A. A ON, B ON, C ON. B. A ON, B OFF, C ON. C. A OFF, B ON, C OFF. D. A OFF, B OFF, C ON. E. A OFF, B OFF, C OFF.</p>
4	<p>Selfishness is a principal evil in our society. Every person is concerned with only himself. Personal advancement is the only motivating force in the world today. This does not mean that individuals are not willing to help one another, on the contrary, ----- . However, these are only short-term occurrences, which ultimately serve our long-term goal of personal gain.</p> <p>Q: a greater number of computers are sold in sahiwal than in Burewala. Therefore, the people of Sahiwal are better informed about world events than are the people of Burewala. Each of the following, if true, weakness the conclusion above EXCEPT?</p>	<p>A. Sahiwal has larger population than Burewala. B. Most people of Burewala work in Sahiwal. C. Each people in Sahiwal spends less time surfing internet than does a person in Burewala. D. The internet bandwidth is 128 kbps in both towns. E. Bandwidth usage in Burewala is more than that in Sahiwal</p>
5	<p>Six scientists A, B, C, D, E and F are to present a paper each at a one-day conference. Three of them will present their paper in the morning session before the lunch break whereas the other three will present in the afternoon session. The lectures have to be scheduled in such a way that they comply with the following restrictions:</p> <p>B should present his paper immediately before C's presentation; their presentations cannot be separated by the lunch break. D must be either the first or the last scientist</p>	<p>A. First B. Second C. Third D. Fourth E. Fifth</p>

to present his paper.

Q: In case F is to present his paper immediately after D presents his paper, C could be scheduled for which of the following places in the order of presenters?

- 6 Selfishness is a principal evil in our society. Every person is concerned with only himself. Personal advancement is the only motivating force in the world today. This does not mean that individuals are not willing to help one another, on the contrary, ----- However, these are only short-term occurrences, which ultimately serve our long-term goal of personal gain.
- Q: In an examination, Rizwana has more marks than Fauzia. Shugufta has fewer marks than Zahid. Fauzia and Abid have more marks than Shugufta. If the above is true, which of the following must also be true?
- A. Fauzia has fewer marks than Shugufta.
B. Rizwana has more marks than Shugufta
C. Fauzia has fewer marks than Zahid.
D. Zahid has more marks than Rizwana.
E. Zahid has more marks than Abid.

- 7 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.
- 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: In case T and Z are the individuals serving on committee B, how many of the nine individuals should serve on committee C?
- A. 3
B. 4
C. 5
D. 6
E. 7

- 8 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.
- 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: In case T, S and X are the only individuals serving on committee B, the total membership of committee C should be:
- A. Z and Y
B. Z and W
C. Y and V
D. Y and U
E. X and V

- 9 Multan Institute of Higher Studies plans to show five educational films A, B, C, D and E to a group of students. The film shows are planned in an order, which conforms to the following conditions:
- A must be shown earlier than C.
- B must be shown earlier than D.
- E should be the fifth film shown.
- Q: In case B, D and E are to be shown one after the other in the given order, the position from first to fifth in which A could possibly be shown is
- A. Second.
B. First
C. Third
D. Fifth
E. Fourth

- 10 Multan Institute of Higher Studies plans to show five educational films A, B, C, D and E to a group of students. The film shows are planned in an order, which conforms to the following conditions:
- A must be shown earlier than C.
- B must be shown earlier than D.
- E should be the fifth film shown.
- Q: In case, C is shown earlier than E, which among the following will hold true?
- A. A is the second film shown.
B. B is the second film shown.
C. C is the third film shown.
D. D is the fourth film shown.
E. E is the fourth film shown.

Follow us to the real Pakistan leaving behind the disturbances of civilization. Real Pakistan is

A. A person is not a voluntary agent, if he acts by reason of ignorance and repents.
B. If an action is done by reason of

- 11 still inhabited by the eagle, the cow, the black deer, and tigers; it is still spacious, sprawling, and majestic. Experience the freedom and serenity still to be found in ----- Q: Everything that a person does, which is dictated because of ignorance is not voluntary. Involuntary actions are those, which produce pain and repentance. In case a man has done something in his ignorance and he does not feel vexed due to his action, he has not acted voluntarily as he was not aware of what he was doing, not yet involuntarily since he is not pained. After reading his passage we can arrive at the conclusion that:
- 12 Selfishness is a principal evil in our society. Every person is concerned with only himself. Personal advancement is the only motivating force in the world today. This does not mean that individuals are not willing to help one another, on the contrary, ----- However, these are only short-term occurrences, which ultimately serve our long-term goal of personal gain.
- Q: Drama Producers earn their profits primarily from advertising revenue, and potential advertisers are more likely to advertise on a TV with a wide network, a large number of cable operators, and other viewers. However, the coverage of the channel that is currently the most popular one in this city has steadily increased. Any of the following, if true, would help explain the apparent discrepancy between the two statements above EXCEPT:
- 13 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:
- In case only switch A is ON in the default setting, then turn switch B ON.
- 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.
- Q: In case, switch A is OFF in the second setting. Which of the following could have been the default setting?
- 14 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:
- 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.
- (Represent the person with first letter of his name)
- Q: Among the following statements, which would make M, D, N, G, L, O, A the only possible sequence of speakers?
- 15 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:
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- 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.
- Q: In case only switches B is ON in the default setting, what must be the second setting?
- 16 Six scientists A, B, C, D, E and F are to present a paper each at a one-day conference. Three of them will present their paper in the morning session before the lunch break whereas the other three will present in the afternoon session. The lectures have to be scheduled in such a way that they comply with the following restrictions:
- ignorance and is not voluntary, then it was repented.
C. a man is an involuntary agent, if he acts by reason of ignorance.
D. Some actions are either involuntary or not voluntary.
E. If a man is not voluntary agent, he acted because of ignorance and repents.
- A. The most profitable producer in the city receives revenue from its subscribers as well from advertisers.
B. Advertisers generally switch from the most popular channel to another one only when the other one becomes the most popular instead.
C. The number of channels competing viably with most profitable channel in the city has increased during the last two years.
D. The network of the most profitable TV channel in the city is still greater than of any of its competitors.
E. Advertising rates charged by the most profitable TV channel in the city are significantly higher than those charged by its competitors.
- A. A ON, B ON, C ON.
B. A ON, B ON, C OFF.
C. A ON, B OFF, C ON.
D. A ON, B OFF, C OFF.
E. A OFF, B ON, C OFF.
- 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.
- A. A ON, B ON, C ON,
B. A ON, B ON, C OFF,
C. A ON, B OFF, C ON,
D. A OFF, B OFF, C ON,
E. A OFF, B OFF, C OFF,
- A. A is first in the order of presenters.
B. A is third in the order of presenter.
C. A is fourth in the order of -----

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B should present his paper immediately before C's presentation; their presentations cannot be separated by the lunch break. D must be either the first or the last scientist to present his paper.

Q: In case F and E are the fifth and sixth presenters respectively then which of the following must be true?

presenters.

- D. B is first in the order of presenters.
- E. C is fourth in the order of presenters.

17

In an in vitro study, 160 white cats were injected with Salt X. 160 other white cats injected with placebo. In two weeks, 39% of the white cats, who were injected with Salt X showed symptoms of Kay fever. Hence, it can be concluded that Kay fever is caused by some elements similar to the elements in Salt X.

Q: Wall chalking on public property should be outlawed. Radicals and fanatics have no right to use public property when promoting their unsavory views. The argument above is based on the idea

A. The general public has an interest in the free exchange of different political views.

B. Every person who uses wall chalking for the promotion of ideas is a radical or fanatic.

C. Radicals and fanatics prefer the use of public property while propagating their viewpoint.

D. Legal constraints should be equal for all.

E. Any promotional activity, which is against public interest, should be protected by law.

18

Three men (Tahir, Pervaiz and Javed) and three women (Elena, Ayesha and Kiran) are spending a few months at Abbottabad. They are to stay in a row of nine cottages, each on living in his or her own cottage. There are no others staying in the same row of cottages.

1. Ayesha, Tahir and Javed do not want to stay in any cottage, which is at the end of the row.

2. Elena and Ayesha are unwilling to stay besides my occupied cottage.

3. Kiran is next to Pervaiz and Javed.

4. Between Ayesha and Javed's cottage there is just one vacant house.

5. None of the girls occupies adjacent cottages.

6. The house occupied by Tahir is next to an end cottage.

Q: Which among these statement(s) are true?

a. Ayesha is between Elena and Javed.

b. At the most four persons can have occupied cottages on either side of them.

c. Tahir stays besides Pervaiz

A. I only

B. II only

C. I and III only

D. II and III only

E. I, II and III

19

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.

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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: of the nine individuals, the largest number that can serve together on committee C is

A. 9

B. 8

C. 7

D. 6

E. 5

20

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:

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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?

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.

