

NAT II Management Science Analytical

Sr	Questions	Answers Choice
1	<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 to present his paper.</p> <p>Q: In case F and E are the fifth and sixth presenters respectively then which of the following must be true?</p>	<p>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 presenters. D. B is first in the order of presenters. E. C is fourth in the order of presenters.</p>
2	<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: of the nine individuals, the largest number that can serve together on committee C is</p>	<p>A. 9 B. 8 C. 7 D. 6 E. 5</p>
3	<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, C is shown earlier than E, which among the following will hold true?</p>	<p>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.</p>
4	<p>Follow us to the real Pakistan leaving behind the disturbances of civilization. Real Pakistan is 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 -----.</p> <p>Q: If I am elected, I will fight for changes effecting the growth and prosperity of the poor. We will work together to do away with the bureaucratic bogs which have existed ever since my opponent took office. Every one of you knows what I stand for; I invite my opponent to -----</p>	<p>A. Extend his support to me B. Make his mind clear C. Stop lying to the public D. Hand in his resignation graciously E. Get our city more federal aid</p>
5	<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: Which among the following is the pair of films that CANNOT be shown right before E?</p>	<p>A. A and B B. A and D C. B and C D. B and D E. C and D</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:

- 6 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.

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

Q: B could be placed at any of the following places in the order of presenters EXCEPT

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

- 7 Dieticians claim that those people who seek help to quit the habit of over eating, are unable to stop overeating. Therefore, doctors have concluded that success in breaking such habit is rare. A large-scale survey shows that thousands of people have quit the habit of over eating. If both of the statements above are correct, an explanation that resolves their apparent contradiction is.

- A. Dieticians do not work seriously so the people are not satisfied with their treatment
- B. The survey was conducted at only the posh areas of big cities, so it is based on wrong sample
- C. Will power play vital role in success to quit such habits
- D. People need more food.
- E. Those who succeeded in quitting the over eating did not go to dieticians for treatment and so are not included in the dieticians' data

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

- 8 Q: In 1970, Shaheen Inn earned Rs. 10 million in hotel business. By 1990, revenue doubled and in 2000, it reached the sum of Rs. 40 million. Each of the following, if true, may explain the trend in hotel business except:

- A. The number of total hotel rooms has increased.
- B. Average cost per room has increased.
- C. The number of customers has increased from 1970 to 1990.
- D. Average stay per customer has increased.
- E. The average price of customer services has increased.

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.

- 9 Q: People should be held accountable for their own behavior, and if holding people accountable for their own behavior entails capital punishment, then so be it. However, no person should be held accountable for behavior over which he or she had no control. Which of the following is the most logical conclusion of the argument above?

- A. People should not be held accountable for the behavior of other people.
- B. People have control over their own behavior.
- C. People cannot control the behavior of other people.
- D. Behavior that cannot be controlled should not be punished.
- E. People have control over behavior that is subject to capital punishment.

A railway track from Lahore to Islamabad consists of six main stations, P, Q, R, X, Y, and Z. Trains run only according to the following condition:

- 10 (i) From P to Q
(ii) From Q to P and from Q to R
(iii) From R to X
(iv) From X to Q and from X to Y
(v) From Z to P, from Z to Y and from Z to R
(vi) From Y to X
(vii) It is possible to transfer a station for another train.

- A. P to R
- B. Q to Y
- C. Z to Q
- D. Z to R
- E. Z to Y

Q. The trip which requires greatest number of transfer, is:

An Internal Services Manager at a large corporation has been assigned the task of allotting offices to six of the staff members. The offices are titled A through F.

Mrs. Ruby needs to use the telephone quite often throughout the day. Mr. Mujahid and Mr. Zahid need adjacent offices as they need to consult each other often while working. Mrs. Fauzia is a senior employee and has to be allotted the office marked

- A. A, B and D

- 11 working. Mrs. Fauzia is a senior employee and has to be allocated the office marked E, having the biggest window. Mr. Abid requires silence in the offices next to his. Mr. Shahid, Mr. Mujahid and Mr. Abid are all smokers. Mrs. Fauzia requires non-smoker neighbors.

- B. B, C and F
C. A, B and E
D. A, B and C
E. A, B and F

Unless specifically stated all the employees maintain an atmosphere of silence during office hours.

Q: The three employees who are smokers should be seated in the offices.

- 12 Six candidates Ali, Amin, Omer, Hamza, Saleem and Osama are being interviewed for a job. The interview will take place over four consecutive days, starting on Thursday, Each candidate will have only one interview. The day on which the different candidates will interview must conform to the following conditions:

- (i) At least one interview will take place each day
(ii) No more than two interviews will take place on any day
(iii) No more than three interviews will take place on any two consecutive days
(iv) Ali's interview must take place on Saturday.
(v) Amin's interview must place on the same with another interview.
(vi) Saleem's interview must take place on the day before Osama's interview
(vii) Omer's interview must take place on a day after Hamza's interview.

- A. Ali
B. Amin
C. Omer
D. Saleem
E. Osama

Q: If only one interview takes place on Thursday which candidate could have that interview?

- 13 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: 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 C is to be the fifth scientist to present his paper, then B must be

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

- 14 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: There is clear evidence that the mandated vaccination of children under age four has resulted in fewer child fatalities over the past five years. Compared to the five-year period prior to the passage of laws requiring the vaccination, fatalities of children under age four have decreased by 30 percent. Which one of the following, if true, most substantially strengthens the argument above?

- A. The fatality rate for other age groups has remained steady over the past five years.
B. Air pollution has been increased over the period of past five years.
C. Government has implemented a malaria control campaign last year
D. Health conditions in the country are better than has been previously.
E. Death rate of pregnant women has decreased.

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Q: Professor Taimoor told his class that teacher's evaluation by students is not a valid measure of teaching quality. For this evaluation, students should fill out questionnaires at the end of the course. Which of the following, if true, supports professor Taimoor's suggestion?

- A. Students' evaluation of teachers is a wrong method.
B. Student's opinions against teachers are filtered during course.
C. Professor Taimoor had received low ratings from his students.
D. Teachers are not interested in any survey.
E. Students show interest in teacher evaluation.

- 16 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:

At most two classes can view the comet on any given night.

Class K cannot view the comet on the same night that Class N does.

- 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

Class L must view the comet on a night prior to the night when Class P views the comet.

Wednesday.
E. Class views the comet on Thursday.

Class O must view the comet on the same night that Class P does.

Q: If Class O can view the comet neither on Wednesday nor on Thursday, which of the following must be true?

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:

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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: 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: 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:

- 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.

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.

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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 of the above statements can be said to have been derived from two other statements?

- A. Statement 1
- B. Statement 2
- C. Statement 3
- D. Statement 5
- E. Statement 6

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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.