

## NAT II Management Science Analytical

Sr	Questions	Answers Choice
1	<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 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</p>	<p>A. Second.  <span style="color: green;">B. First</span>  C. Third  D. Fifth  E. Fourth</p>
2	<p>One's ability to adjust in an environment successfully leads to happiness. War at a universal level destroys the weaker people, who are the most unable to adjust to their environment. Thus, war at the universal level puts weakling out of their misery and allows more space for their predators to enjoy life in a better manner. As those actions have to be performed, which maximize the level of happiness of the greatest number, war at a universal level should take place.</p> <p>Q: If Rubina was born in KPK, then she is a citizen of Pakistan. The statement above can be deduced from which of the following statement?</p>	<p>A. Every citizen of the Pakistan is resident either of one of the province or of one of the tribal area.  B. Rubina was born either in KPK or in Sindh.  C. Some people born in KPK are citizens of Pakistan.  D. Everyone born in Pakistan is a citizen of Pakistan.  <span style="color: green;">E. Rubina is citizen either of Pakistan or of any other country.</span></p>
3	<p>A bus has exactly six stops on its route. The bus first stops at stop one and then at stops two, three, four, five and six respectively. After the bus leaves stop six, the bus turns and returns to stop one and repeats the cycle. The stops are at six buildings that are, in alphabetical order L, M, N, O, P and Q.</p> <p>Q: In case L is the second stop, which among the following must be the stop immediately before M?</p>	<p>A. N  B. L  C. P  D. O  <span style="color: green;">E. Q</span></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: 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:</p>	<p>A. The number of total hotel rooms has increased.  <span style="color: green;">B. Average cost per room has increased.</span>  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.</p>
5	<p>A chemist is preparing a nutrient using eight different vitamins and minerals ....A, B, C, D, E, H, F(Ferric), and Z(Zinc). According to the recipes, the following requirements apply to the use of ingredients:</p> <p>(i) If B is used, both C and Z must also be used</p> <p>(ii) E and H must always be used together</p> <p>(iii) If C is used, at least two of A, B and F must also be used</p> <p>(iv) C and H cannot be used together</p> <p>(v) E, F and Z cannot all be used in a same nutrient</p> <p>(vi) A, D, and Z cannot all be used in the same nutrient</p> <p>Q: Which of the following is a suitable combination of vitamins and minerals for a nutrient?</p>	<p>A. A, B, C, F  <span style="color: green;">B. D, E, H, Z</span>  C. A, D, E, Z  D. C, D, E, F  E. E, H, F, Z</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 -----.

6 Q: The Rawalpindi city council started a publicity campaign for convincing the people to use public transport rather than their own transport in the city. Two months later there was a decrease in private transport on the roads in the mid city area. The city council claimed that their publicity campaign was successful to convince people to leave their cars at home and ride the city bus service to work. Which of the following, if true create the most serious doubt on the conclusion drawn above?

A. There was a subsequent increase in the use of CNG.  
 B. The busiest roads of the city have been damaged because of continual floods in Nala Layee for last five months.  
 C. People are busy enough to bring their vehicles on the roads.  
 D. City council expended a lot of money to make the campaign successful.  
 E. The number of cars has increased due to Bank loaning in the city.

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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:

(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.

Q. The complete and accurate listing of the stations from which it is possible to reach R with exactly one transfer is :

7 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.

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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.

8 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, 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.

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(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

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

(vii) It is possible to transfer a station for another train.

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

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:

11 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)

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

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 untrue?

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.

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

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

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

Q: If Class N Views the comet on Thursday, which of the following could be true?

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.

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 -----.

13 Q: The above paragraph is most likely to appear in which of the following?

A. A Guide to Pakistan's intrinsic beauty  
B. Exploring the Great Outdoors  
C. The Quiet Beauty of Harappa  
D. how the Eagle Became Extinct  
E. Returning to Pakistan

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14 Q: Muzzaffar is terrible driver. He had ten traffic violations in the past year. Which of the following can be said about the above claim?

A. Muzzaffar does not know how to drive  
B. Muzzaffar is an addict of drugs  
C. It is obvious that everyone has accidents in bad weather.  
D. Some thing, in this argument is hidden.  
E. The given statement is wrong.

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(ii) From Q to P and from Q to R

(iii) From R to X

15 (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. 4  
B. 5  
C. 6  
D. 3  
E. 2

Q. The greatest number of stations that can be visited without visiting any station more than once, is:

A chemist is preparing a nutrient using eight different vitamins and minerals ....A, B, C, D, E, H, F(Ferric), and Z(Zinc). According to the recipes, the following requirements apply to the use of ingredients:

16 (i) If B is used, both C and Z must also be used  
(ii) E and H must always be used together  
(iii) If C is used, at least two of A, B and F must also be used  
(iv) C and H cannot be used together  
(v) E, F and Z cannot all be used in a same nutrient  
(vi) A, D, and Z cannot all be used in the same nutrient

A. B  
B. D  
C. H  
D. F  
E. Z

Q: Which of the following cannot be included in a nutrient that contains E?

17 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

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.

18 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.

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

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

19 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 -----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:

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 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.

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:

20 (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 take 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?

