

## 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 exactly one film is shown between A and C, and exactly one film is shown between B and D, which among the following will hold true?</p>	<p>A. B is the film shown between A and C.</p> <p>B. A is the film shown between B and D.</p> <p>C. E is the film shown between A and C.</p> <p>D. D is the last film shown.</p> <p>E. E is the first film shown.</p>
2	<p>At IOWA University, Students of Economics must complete a total to twelve courses selected from three different parts of the syllabus .... Comparative economics, environmental economics, and regional economics... in order to graduate, the students must meet the following course distribution requirements:</p> <p>(i) At least six of the required twelve course must be from the environmental economics.</p> <p>(ii) At least five of the required twelve courses must be from comparative economics and regional economics, with at least one, but no more than three, selected from comparative economics.</p> <p>Q: The minimum number of regional economics courses required to fulfil the course distribution requirements is</p>	<p>A. 1</p> <p>B. 3</p> <p>C. 5</p> <p>D. 2</p> <p>E. 4</p>
3	<p>Two or more tealeaves out of five varieties – Livana, Mathia, Novajana, Oxia, and Piask are used in making all branded by a marketer following the rues given below.</p> <p>A brand containing Livana, should also contain Novajana twice that of Livana.</p> <p>A brand containing Mathia, must also have equal quantity of Oxia.</p> <p>A single brand never contains Novajana as well as Oxia.</p> <p>Oxia and Piask should not be used together.</p> <p>A blend containing Piask should contain it in such a proportion that the total amount of Piask present should be greater than the total amount of the other tealeaves</p> <p>Q: Among the below mentioned brands, which can be made agreeable by eliminating some or all of one type of tealeaves?</p>	<p>A. One part Livana, one part Mathia, one part Novajana, four parts Piask</p> <p>B. One part Livana, two parts Novajana, one part Oxia, four parts Piask</p> <p>C. One part Livana, one part Mathia, one part Oxia, one part Piask</p> <p>D. Two parts Livana, two parts Novajana, one part Oxia, two parts Piask</p> <p>E. Two parts Mathia, one part Novajana, two parts Oxia, three parts Piask</p>
4	<p>A group of dog lovers declare that the principal virtue of the dog is its general friendliness towards all people. But, another group of cat lovers declare that the principal virtue of the cat is its peculiar friendliness towards its provider.</p> <p>Which of the following is true of the claims of both dogs and cats lovers?</p>	<p>A. Animal have not a sense to understand human behaviour</p> <p>B. Groups of animal lovers are friendly</p> <p>C. Friendliness is a virtue</p> <p>D. They apply the same standard</p> <p>E. Uncommon virtue of friendliness</p>
5	<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 that are ON.</p>	<p>A. A ON, B ON, C ON.</p> <p>B. A ON, B ON, C OFF.</p> <p>C. A ON, B OFF, C ON.</p> <p>D. A ON, B OFF, C OFF.</p> <p>E. A OFF, B ON, C OFF.</p>

turn OFF all switches, if any, that are ON.

Q: In case, all three switches are ON in the second setting, which among the following could have been the default setting?

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.

6

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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7

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.

- 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.

Q: In case, only switch B is ON in the second setting. Which of the following could have been the default setting?

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:

8

- 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.

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 ----- .

9

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.

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 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.

10

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.

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

- A. People suffering from Kay fever are the victims of the golden viper of Sindh.
- B. One among the 160 white cats

11	<p>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.</p> <p>Q: Which of the following statements would most seriously weaken the above discussion?</p>	<p>had already showed symptoms of Kay fever prior to the experiment.</p> <p>C. The natural habitats of white cats does not contain any of the elements found in Salt X.</p> <p>D. The 160 white cats used in the experiment were kept isolated from each other.</p> <p>E. The scientists administered the injections being ignorant of the contents of the salt used.</p>
12	<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 ture, weakness the conclusion above EXCEPT?</p>	<p>A. Sahiwal has larger population than Burewala.</p> <p>B. Most people of Burewala work in Sahiwal.</p> <p>C. Each people in Sahiwal spends less time surfing internet than does a person in Burewala.</p> <p>D. The internet bandwidth is 128 kbps in both towns.</p> <p>E. Bandwidth usage in Burewala is more than that in Sahiwal</p>
13	<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: Classical songs occupy a unique and peculiar position in every culture. They are imperishable as cultural landmarks, but the emotions expressed in some of the folks are often superseded by newer tunes. However, the classics survive just as heritage, as imposing features of the society, yet unsuited for habitation unless remodeled. The principle point put forth in the above passage is that classical works</p>	<p>A. Are ignored by young generation</p> <p>B. Are an obstacle in the development in new tunes</p> <p>C. Should be stored in museums.</p> <p>D. Lose their distinctive features as time passes.</p> <p>E. Need our respect and admiration even if their tunes and ideas they express are no longer current.</p>
14	<p>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.</p> <p>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 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.</p> <p>Unless specifically stated all the employees maintain an atmosphere of silence during office hours.</p> <p>Q: The idea office for Mr. Mujahid would be.</p>	<p>A. B</p> <p>B. F</p> <p>C. A</p> <p>D. C</p> <p>E. D</p>
15	<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: 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</p>	<p>A. First</p> <p>B. Second</p> <p>C. Third</p> <p>D. Fourth</p> <p>E. Fifth</p>
16	<p>In an in vitro study, 160 white cars 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.</p> <p>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</p>	<p>A. The general public has an interest in the free exchange of different political views.</p> <p>B. Every person who uses wall chalking for the promotion of ideas is a radical or fanatic.</p> <p>C. Radicals and fanatics prefer the use of public property while propagating their viewpoint.</p> <p>D. Legal constraints should be equal for all.</p> <p>E. Any promotional activity, which is against public interest, should be protected by law.</p>
	<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</p>	

following constraints:

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

17

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

A. Class K views 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.

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:

18

A must be shown earlier than C.

B must be shown earlier than D.

E should be the fifth film shown.

Q: Which among the following is the pair of films that CANNOT be shown right before E?

A. A and B

B. A and D

C. B and C

D. B and D

E. C and D

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:

19

A must be shown earlier than C.

B must be shown earlier than D.

E should be the fifth film shown.

Q: In case, D is to be shown earlier than A, then for which of the following these exactly one position from through fifth in which it can be scheduled to be shown?

A. A

B. B

C. C

D. D

E. E

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:

20

(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 :

A. P and Q

B. P and X

C. X and Y

D. X and Z

E. X, P and Z