

## NAT II Management Science Analytical

Sr	Questions	Answers Choice
1	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, ————————————————————————————————————	A. The reason of almost all forest fires is natural.  B. Human beings try to extinguish the fire for gaining heat.  C. Studies indicate that forest fires regularly occurred in the times prior to human occupation of forest areas D. The animal and plant life destroyed by forest fires seldom represents endangered species.  E. Occasionally, the small fire prevents a large scale fire by the accumulation of flammable materials
	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:	
2	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.	A. A ON, B ON, C OFF. B. A ON, B OFF, C ON. C. A OFF, B ON, C ON. D. A OFF, B ON, C OFF. E. A OFF, B OFF, C OFF.
	Q: Which of the following default settings leads to a second setting, where only one switch is OFF?	
	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.	A One and Livery are good Mathia
	A brand containing Livana, should also contain Novajana twice that of Livana.  A brancd containing Mathia, must also have equal quantity of Oxia.	A. One part Livana, one part Mathia, one part Novajana, four parts Piask     B. One part Livana, two parts     Novajana, one part Oxia, four parts
3	A single brand never contains Novajana as well as Oxia.	Piask C. One part Livana, one part Mathia one part Oxia, one part Piask
	Oxia and Piask should not be used together.	D. Two parts Livana, two parts Novajana, one part Oxia, two parts Piask
	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	E. Two parts Mathia, one part Novajana, two parts Oxia, three part Piask
	Q: Among the below mentioned brands, which can be made agreeable by eliminating some or all of one type of tealeaves?	
4	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.	A. The general public has an interes 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
	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	propagating their viewpoint.  D. Legal constraints should be equator all.  E. Any promotional activity, which is against public interest, should be protected by law.

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.

A. O is stop one.
B. Q is stop three.
C. P is stop four.
D. N is stop five.

 $\mbox{\bf P}$  is the third stop. M is the sixth stop. The stop O is the stop immediately before Q. N

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

C. A, D, E, Z

D. C, D, E, F

E. E, H, F, Z

A. A, D, Z B. B, H, E

C. C, D, H

Q: In case a passenger gets on the bus at O, rides past one of the stops and gets off at P, which of the following must be true?

A chemist is preparing a nutriment 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:

- (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

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- (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 nutriment
- Q: Which of the following is a suitable combination of vitamins and minerals for a nutriment?

A chemist is preparing a nutriment 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:

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- (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 nutriment
- Q: By the addition of exactly one more mineral, which of the following could make an acceptable combination of vitamins and minerals?

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:

(i) At least six of the required twelve course must be from the environmental economics.

(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.

Q: The minimum number of regional economics courses required to fulfil the course

B. 3

C. 5

distribution requirements is

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
- 2. Elena and Ayesha ar 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.

A. I only B. II only

C. I and III only D. II and III only

E. I, II and III

- 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 ocupied cottages on either side of them.
- c. Tahir stays besides Pervaiz

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Q: In case only switches B is ON in the default setting, what must be the second setting?

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,

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.

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.

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

A. First

B. Second

D. Fourth E. Fifth

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 ture, 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.

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 -------

A. The qualities of photography are not dependent on criticism.

B. Critics seem hypocritical

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Q: Some critics are of the opinion that the intrinsic qualities of photography depend C. People can not judge the art work 14 on criticism and hence it is a matter of opinion. It is rather odd, though, that in a legal D. Photography is an art independent of your opinion connection, serious critics themselves quite often behave as if they believed criticism E. artists should teach at universities. to be a matter of opinion. why be a critic and teach in universities - in case criticism involves nothing but uttering capricious and arbitrary opinion? In the above argument the author is trying to convince that Selfishness is a principal evil in our society. Every person is concerned with only A. Students' evaluation of teachers is himself. Personal advancement is the only motivating force in the world today. This a wrong method. does not mean that individuals are not willing to help one another, on the contrary, -B. Student's opinions against -. However, these are only short-term occurrences, which ultimately serve our teachers are filtered during course. long-term goal of personal gain. C. Professor Taimoor had received 15 low ratings from his students. D. Teachers are not interested in Q: Professor Taimoor told his class that teacher's evaluation by students is not a any survey. valid measure of teaching quality. For this evaluation, students should fill out E. Students show interest in teacher questionnaires at the end of the course. Which of the following, if true, supports evaluation. professor Taimoor's suggestion? 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. A. A ON, B ON, C ON. 16 In case switches A and B are the only switches ON in the default setting, then turn C. A OFF, B ON, C OFF. switch C ON. In case all the three switches are ON, in default setting, then turn the D. A OFF, B OFF, C ON. E. A OFF, B OFF, C OFF. 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 switch B is ON in the second setting. Which of the following could have been the default setting? 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 confirm to the following conditions: (i) At least one interview will take place each day A Ali (ii) No more than two interviews will take place on any day B. Amin 17 C. Omer (iii) No more than three interviews will take place on any two consecutive days F. Osama (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. Q: If only one interview takes place on Thursday which candidate could have that interview? Four captains and the first mates of three of them were called to attend the annual meeting at head guarter. The captains were Lugman, Manzoor, Nauman and Osaf; the first mates were Ayesha, Durya and Gia. Each person in turn delivered a report to the chairperson as follows: A. A spoke sometime before L. B. D spoke sometime before O Each of the first mates delivered their report exactly after her captain. The first C. L spoke sometime before O. 18 captain to speak was Manzoor, and captain Nauman spoke after him.

(Represent the person with first letter of his name)

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?

D. O spoke sometimes before L.

E. O spoke sometime before N.

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 A. The most profitable producer in the city receives revenue from its subscribes as well from advertisers. B. Advertisers generally switch from the most popular channel to another long-term goal of personal gain.

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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:

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.

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.

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

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.