

NAT II Management Science Analytical

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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. 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
	An Internal Services Manager at a large corporation has been assigned the task of	
2	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.	
3	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 (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. 1 B. 2 C. 3 D. 4 E. 5
	many candidates would be eligible to interview on Friday?	
4	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 brand containing Livana, should also contain Novajana twice that of Livana.	A. One part Livana, one part Mathia, one part Novajana, four parts Piask
	A brancd containing Mathia, must also have equal quantity of Oxia.	B. One part Livana, two parts Novajana, one part Oxia, four parts Piask
	A single brand never contains Novajana as well as Oxia.	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
	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	Piask E. Two parts Mathia, one part Novajana, two parts Oxia, three parts
	Q: Among the below mentioned brands, which can be made agreeable by	Piask
	eliminating some or all of one type of tealeaves?	
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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

5	P is the third stop. M is the sixth stop. The stop O is the stop immediately before Q. N is the stop immediately before L. 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?	B. Q is stop three. C. P is stop four. D. N is stop five. E. L is stop six.
6	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 brand containing Livana, should also contain Novajana twice that of Livana. A brancd containing Mathia, must also have equal quantity of Oxia. A single brand never contains Novajana as well as Oxia. Oxia and Piask should not be used together. 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 Q: Among the following, the addition of which combination would make a brand containing two parts Novajana and one part Piask conformable with the conditions?	A. One part Livana B. One part Mathia C. Two parts Novajana D. One part Oxia E. Two parts Piask
7	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: 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
8	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 distribution requirements is	A. 1 B. 3 C. 5 D. 2 E. 4
9	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, all three switches are ON in the second setting, which among the following could have been the default setting?	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 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) Frm P to Q

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

(iii) From R to X B. 5 10 (iv) From X to Q and from X to Y D. 3 (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 greatest number of stations that can be visited without visiting any station more than once, is: A. In case the second speaker was a captain, the seventh speaker was a Four captains and the first mates of three of them were called to attend the annual first mate. meeting at head guarter. The captains were Lugman, Manzoor, Nauman and Osaf; B. In case the second speaker was a the first mates were Ayesha, Durya and Gia. Each person in turn delivered a report to first mate, the seventh speaker was a the chairperson as follows: captain. C. In case the third speaker was a 11 first mate, the seventh speaker was a Each of the first mates delivered their report exactly after her captain. The first captain. captain to speak was Manzoor, and captain Nauman spoke after him. D. In case the third speaker was a captain, the seventh speaker was a (Represent the person with first letter of his name) first mate. E. In case the seventh speaker was a Q: Among the following statements, which statement must be true? first mate, the first & amp; third speakers were captains. 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 A. Class P views the comet on following constraints: Tuesday B. Class O views the comet on At most two classes can view the comet on any given night. Thursday. C. Class L views the comet on 12 Tuesday. Class K cannot view the comet on the same night that Class N does. D. Class L views the comet on Wednesday. Class L must view the comet on a night prior to the night when Class P views the E. Class K views the comet on comet. Thursday. 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. The most profitable producer in the city receives revenue from its Selfishness is a principal evil in our society. Every person is concerned with only subscribes as well from advertisers. himself. Personal advancement is the only motivating force in the world today. This B. Advertisers generally switch from does not mean that individuals are not willing to help one another, on the contrary, the most popular channel to another -. However, these are only short-term occurrences, which ultimately serve our one only when the other one long-term goal of personal gain. becomes the most popular instead. C. The number of channels competing viably with most profitable Q: Drama Producers earn their profits primarily from advertising revenue, and 13 channel in the city has increased potential advertisers are more likely to advertise on a TV with a wide network, a large during the last two years. 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 D. The network of the most profitable TV channel in the city is still greater following, if true, would help explain the apparent discrepancy between the two than of any of its competitors. statements above EXCEPT: E. Advertising rates charged by the most profitable TV channel in the city are significantly higher than those charged by its competitors. 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) Frm P to Q (ii) From Q to P and from Q to R

> A. P and Q B. P and X

C. X and Y

D. X and Z

E. X, P and Z

(iii) From R to X

(vi) From Y to X

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(iv) From X to Q and from X to Y

(v) From Z to P, from Z to Y and from Z to R

- (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:

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.

A. R B. Y C. W

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.

D. T

Q: In case, any of the nine individuals serves on committee C, which among the following could not be the candidate to serve on committee A?

> A. Some of the elements in Salt X are extracted from the root of a certain poisonous herb of Hunza.

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.

B. The blood test of the victims of Kay fever revealed the presence of a toxic element in their blood, normally found in salt X.

Q: Which of the following would most strengthen the argument above?

C. Almost all the white cats died within two days after the first symptom appeared.

D. Normally the rate of Kay fever among white cats is less than 0.01%. E. Within two weeks, about 40% of the white cats, who were injected with placebo, also contracted Kay fever.

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 --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 dose 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

B. If an action is done by reason of ignorance and is bot 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.

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 ar unwilling to stay besides my occupied cottage.
- A. 2 B. 3
- D. 5

- 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: How many of them occupy cottages next to a vacant cottage?

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A. Livana and Mathia

B. Livana and Novajana

C. Livana and Piask

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Oxia and Piask should not be used together.

บ. เพลเทเล สทน บุฆล E. Piask and Novajana

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

Q: Among the following, which combination cannot be used together in an agreeable brand containing two or more types of tealeaves?

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 is the third stop. M is the sixth stop. The stop O is the stop immediately before Q. N is the stop immediately before L.

B. L C. P D. O

Q: In case L is the second stop, which among the following must be the stop immediately before M?

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