

NAT II Biological Science Analytical

Sr	Questions	Answers Choice
	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:	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.
	In case only switch A is ON in the default setting, then turn switch B ON.	
1	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, only switch B is ON in the second setting. Which of the following could have been the default setting?	
2	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. Q: Which of the following would most strengthen the argument above?	A. Some of the elements in Salt X are extracted from the root of a certain poisonous herb of Hunza. 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. 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.
	Two or more tealeaves out of five varieties – Livana, Mathia, Novajana, Oxia, and	A. One part Livana, one part Novajana, five parts Piask B. Two parts Mathia, two parts Novajana, two parts Piask C. One part Mathia, one part Novajana, one part Piask D. Two parts Mathia, one part Novajana, four parts Piask E. Two parts Novajana, one part Oxia, three parts Piask
	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.	
3	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: Adding more amount of Novajana will make which of the following brands conformable with the conditions?	
	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. A is shown earlier than B B. B is shown earlier than C C. C is shown earlier than E D. D is shown earlier than A
	A must be shown earlier than C.	
4	B must be shown earlier than D.	D. D is shown earlier than A
4	B must be shown earlier than D. E should be the fifth film shown. Q: In case D and E are shown as far apart from each other as possible, which among the	

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. Ruhy needs to use the telephone quite often throughout the day. Mr. Muiahid and

triio. Haby Hoodo to doo die telephone quite onem disougnedt die day. 1711, triajania and Mr. Zahid need adjacent offices as they need to consult each other often while A. Mrs. Fauzia working. Mrs. Fauzia is a senior employee and has to be allotted the office marked B. Mr. Mujahid E, having the biggest window. Mr. Abid requires silence in the offices next to his. Mr. C. Mr. Shahid 5 Shahid, Mr. Mujahid and Mr. Abid are all smokers. Mrs. Fauzia requires non-smoker D. Mr. Abid neighbors. E. Mrs. Ruby Unless specifically stated all the employees maintain an atmosphere of silence during office hours. Q: The idea candidate to occupy the office farthest from Mr. Zahid would be. A. There was a subsequent increase Follow us to the real Pakistan leaving behind the disturbances of civilization. Real in the use of CNG. Pakistan is still inhabited by the eagle, the cow, the black deer, and tigers; it is still B. The busiest roads of the city have spacious, sprawling, and majestic. Experience the freedom and serenity still to be been damaged because of continual found in -floods in Nala Layee for las t five months Q: The Rawalpindi city council started a publicity campaign for convincing the people 6 C. People are busy enough to bring to use public transport rather than their own transport in the city. Two months later their vehicles on the roads. D. City council expended a lot of there was a decrease in private transport on the roads in the mid city area. The city money to make the campaign council claimed that their publicity campaign was successful to convince people to successful. leave their cars at home and ride the city bus service to work. Which of the following, E. The number of cars has increased if true create the most serious doubt on the conclusion drawn above? due to Bank loaning in the city. Three girls Joan, Rita and Kim and two boys Tim and Steve are the only dancers in a dance program, which consists of six numbers in this order: One a duet; two a duet; three a solo; four a duet; five a solo; and six a duet. A. Kim is in number two None of the dances is in two consecutive numbers or in more than two numbers. The B. Kim is in number five first number in which Tim appears is the one that comes before the first number in 7 C. Tim is in number one which Kim appears. D. Tim is in number two E. Tim is in number six The second number in which Tim appears is one that comes after the second number in which Kim appears. Q: Rita must perform only in duets if 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 8 (iii) No more than three interviews will take place on any two consecutive days C. Omer E. 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? 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

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

(vi) From Y to X

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

A. P and Q B. P and X

C. X and Y D. X and Z

E. X, P and Z

(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: 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 B. 3 economics. C. 5 10 D. 2 (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 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. A. 9 Committee A should consist of exactly one member more than that of committee. B. 8 11 C. 7 It is possible that there are no members of committee C. Among Z, Y and X none can D. 6 E. 5 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. Q: of the nine individuals, the largest number that can serve together on committee C is Four captains and the first mates of three of them were called to attend the annual meeting at head quarter. The captains were Lugman, Manzoor, Nauman and Osaf; the first mates were Ayesha, Durya and Gia. Each person in turn delivered a report to A. O spoke immediately after G the chairperson as follows: B. The order of the first four speakers was M, G, N, D Each of the first mates delivered their report exactly after her captain. The first 12 C. O's first mate was present captain to speak was Manzoor, and captain Nauman spoke after him. A was the fourth speaker after M E. The captains spoke in the order (Represent the person with first letter of his name) 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 urtrue? 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. A. W and S Committee A should consist of exactly one member more than that of committee. B. V and U 13 C. V and T D. U and S It is possible that there are no members of committee C. Among Z, Y and X none can E. T and S 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. Q: In case R is the only individual serving on committee B, which among the following should serve on committee A?

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 ------

14

Q: Some critics are of the opinion that the intrinsic qualities of photography depend on criticism and hence it is a matter of opinion. It is rather odd, though, that in a legal connection, serious critics themselves quite often behave as if they believed criticism to be a matter of opinion. why be a critic and teach in universities - in case criticism

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

B. Critics seem hypocritical.

C. People can not judge the art work

D. Photography is an art independent of your opinion

E. artists should teach at universities.

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: Which among the following options would most strongly contradict the author;s attitiude towards society?

A. The greatest of society is altruism.

- B. We must all learn the art of love. C. Our short-term actions may contradict our long-term goals. D. Morality is the bedrock of a growing community.
- E. The forces of good will ultimately triumph over evil.

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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.

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.

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

Q: The idea office for Mr. Mujahid would be.

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
- (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 trip which requires greatest number of transfer, is:

A. P to R B. Q to Y

A. B

B. F

C. A

F D

C. Z to Q D. Z to R E. Z to Y

A chemist is preparing a nutriment using eight different vitamins and mineralsA, 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

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

19

15

16

17

18

- (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?

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.

20

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