

## NAT II Biological Science Analytical

Sr	Questions	Answers Choice
	<p>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:</p> <p>(i) From P to Q          (ii) From Q to P and from Q to R          (iii) From R to X          1 (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.</p> <p>Q. The trip which requires greatest number of transfer, is:</p>	
1	<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>2 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.</p> <p>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?</p>	<p>A. P to R          B. Q to Y          C. Z to Q          D. Z to R          E. Z to Y</p> <p>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.</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>3 (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          B. 3          C. 5          D. 2          E. 4</p>
3	<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>4 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?</p>	<p>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.</p>

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:

5 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)

Q: In case A spoke immediately after L and immediately before O, and O was not the last speaker, L spoke

A. Second  
B. Third  
C. Fourth  
D. Fifth  
E. Sixth

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:

6 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)

Q: Among the following statements, which statement must be true?

A. In case the second speaker was a captain, the seventh speaker was a first mate.  
B. In case the second speaker was a first mate, the seventh speaker was a captain.  
C. In case the third speaker was a first mate, the seventh speaker was a captain.  
D. In case the third speaker was a captain, the seventh speaker was a first mate.  
E. In case the seventh speaker was a first mate, the first & third speakers were captains.

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.

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 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?

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 weaklings 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.

8 Q: What response would the author of the above discussion come up with, in the case of the objection that the weaklings far exceed strong people?

I- He would respond with statement that the person making the objection is a weakling.

A. I only  
B. II only  
C. III only  
D. I and II only  
E. II and III only

II- He would respond by saying that weaklings will be miserable no matter what happens.

III- He would respond with statement that the strong would be frustrated if the weaklings are destroyed.

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 one 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.

A. Statement 1  
B. Statement 2  
C. Statement 3  
D. Statement 5  
E. Statement 6

2. Elena and Ayesha are 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.

6. The house occupied by Tahir is next to an end cottage.

Q: Which of the above statements can be said to have been derived from two other statement?

---

10 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: To fill the blank in the above passage, select one of the options from the below mentioned options:

- A. We are always trying to undermine other endeavors.
- B. People always deceive one another.
- C. Even close friends are not trustworthy.
- D. People want power to control others
- E. There are many occasions when we graciously offer our assistance.

---

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.

11 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. W and S
- B. V and U
- C. V and T
- D. U and S
- E. T and S

---

Q: In case R is the only individual serving on committee B, which among the following should serve on committee A?

---

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:

12 A must be shown earlier than C.  
B must be shown earlier than D.

- A. A and B
- B. A and D
- C. B and C
- D. B and D
- E. C and 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?

---

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.

13 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.

---

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 rules given below.

A brand containing Livana, should also contain Novajana twice that of Livana.  
A brand 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

- A. Livana and Mathia
- B. Livana and Novajana
- C. Livana and Piask
- D. Mathia and Oxia
- E. Piask and Novajana

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

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

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 -----.

16 Q: Everything that the king knows necessarily is, because even what we ourselves know necessarily is; and, of course, our knowledge is not as certain as King's knowledge is. However, no future contingent thing necessarily is. Among the following statements, which naturally follows from the above:

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.

17 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.

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?

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:

18 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 F and E are the fifth and sixth presenters respectively then which of the following must be true?

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, C is shown earlier than E, which among the following will hold true?

Rizwan was born in 1956, and so in 1965 he was nine years old. If we use this example, it is clear that the last two digits of a person's birth will be the same as the last two digits of the year of that person's ninth birthday, except that the position of the digits will be reversed. Identify, which is the best criticism of the assertions made above.

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

A. There are no future contingent things.  
B. It is not true that the king has knowledge of only necessary things.  
C. The king has knowledge of no contingent future things.  
D. It is not possible for us to know the king.  
E. The king has knowledge of everything.

A. R  
B. Y  
C. W  
D. T  
E. S

A. A is first in the order of presenters.  
B. A is third in the order of presenters.  
C. A is fourth in the order of presenters.  
D. B is first in the order of presenters.  
E. C is fourth in the order of presenters.

A. A is the second film shown.  
B. B is the second film shown.  
C. C is the third film shown.  
D. D is the fourth film shown.  
E. E is the fourth film shown.

A. The generalization is valid only for those, in which last digit of their birth years is greater than four.  
B. The generalization is applicable only for those birth years that do not end in two zeroes.  
C. This example is not best illustration of the fact.  
D. The generalization is valid only for those birth years in which the difference of the last two digits is one.

E. The generalization is valid only for  
those birth years that ends with 6