

NAT II Biological Science Analytical

Sr	Questions	Answers Choice
1	<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:</p> <p>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.</p> <p>(Represent the person with first letter of his name)</p> <p>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?</p>	<p>A. A spoke sometime before L. B. D spoke sometime before O. C. L spoke sometime before O. D. O spoke sometimes before L. E. O spoke sometime before N.</p>
2	<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: Professor Taimoor told his class that teacher's evaluation by students is not a valid measure of teaching quality. For this evaluation, students should fill out questionnaires at the end of the course. Which of the following, if true, supports professor Taimoor's suggestion?</p>	<p>A. Students' evaluation of teachers is a wrong method. B. Student's opinions against teachers are filtered during course. C. Professor Taimoor had received low ratings from his students. D. Teachers are not interested in any survey. E. Students show interest in teacher evaluation.</p>
3	<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 following constraints:</p> <p>At most two classes can view the comet on any given night.</p> <p>Class K cannot view the comet on the same night that Class N does.</p> <p>Class L must view the comet on a night prior to the night when Class P views the comet.</p> <p>Class O must view the comet on the same night that Class P does.</p> <p>Q: If Class O can view the comet neither on Wednesday nor on Thursday, which of the following must be true?</p>	<p>A. Class K view s 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.</p>
4	<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:</p> <p>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.</p> <p>Q: In case F is to present his paper immediately after D presents his paper, C could be scheduled for which of the following places in the order of presenters?</p>	<p>A. First B. Second C. Third D. Fourth E. Fifth</p>
5	<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>A. The natural beauty of our land B. The fascinating urban centers C. The wild terrain of NWFP D. One's own subconscious</p>

Q: Choose the best option to complete the above statement:

- 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.
- 6 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?

- 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.
- 7 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.
- A. O
B. Q
C. N
D. L
E. M

Q: In case N is the fourth stop, which among the following must be the stop immediately before P?

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- 8
- 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.

- 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.
- 9
- Q: Which among the following options would most strongly contradict the author's attitude 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.

- 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.
- 10 Committee A should consist of exactly one member more than that of committee B.
- 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 B. 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
- A. 9
B. 8
C. 7
D. 6
E. 5

- 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.
- 11 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 ON, C OFF.
C. A ON, B OFF, C ON.
D. A ON, 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.

E. A OFF, B ON, C OFF.

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

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.

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 T and Z are the individuals serving on committee B, how many of the nine individuals should serve on committee C?

- A. 3
- B. 4
- C. 5
- D. 6
- E. 7

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) 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

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.

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. O is stop one.
- B. Q is stop three.
- C. P is stop four.
- D. N is stop five.
- E. L is stop six.

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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 true, weakens the conclusion above EXCEPT?

- A. Sahiwal has larger population than Burewala.
- B. Most people of Burewala work in Sahiwal.
- C. Each person 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

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.
2. Elena and Ayesha are unwilling to stay besides my occupied cottage.

3. Kiran is next to Pervaiz and Javed.
- 16 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 among these statement(s) are true?
- a. Ayesha is between Elena and Javed.
- b. At the most four persons can have occupied cottages on either side of them.
- c. Tahir stays besides Pervaiz

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

- 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.
- 17 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. Mrs. Fauzia
 B. Mr. Mujahid
 C. Mr. Shahid
 D. Mr. Abid
 E. Mrs. Ruby

- 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 -----.
- 18 Q: The above paragraph is most likely to appear in which of the following?

- 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

- 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 conform 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.
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- A. Ali
 B. Amin
 C. Omer
 D. Saleem
 E. Osama

Q: If only one interview takes place on Thursday which candidate could have that interview?

- 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.
- 20 Q: In case F and E are the fifth and sixth presenters respectively then which of the following must be true?

- A. A is first in the order of presenters.
 B. A is third in the order of presenter.
 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.

