

## NAT II Biological Science Analytical

Sr	Questions	Answers Choice
1	<p>In an in vitro study, 160 white cats 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.</p> <p>Q: Which of the following would most strengthen the argument above?</p>	<p>A. Some of the elements in Salt X are extracted from the root of a certain poisonous herb of Hunza.  <b>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.</b>            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.</p>
2	<p>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 weakling 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.</p> <p>Q: If Rubina was born in KPK, then she is a citizen of Pakistan, The statement above can be deduced from which of the following statement?</p>	<p>A. Every citizen of the Pakistan is resident either of one of the province or of one of the tribal area.            B. Rubina was born either in KPK or in Sindh.            C. Some people born in KPK are citizens of Pakistan.            D. Everyone born in Pakistan is a citizen of Pakistan.  <b>E. Rubina is citizen either of Pakistan or of any other country.</b></p>
3	<p>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.</p> <p>A brand containing Livana, should also contain Novajana twice that of Livana.</p> <p>A brand containing Mathia, must also have equal quantity of Oxia.</p> <p>A single brand never contains Novajana as well as Oxia.</p> <p>Oxia and Piask should not be used together.</p> <p>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</p> <p>Q: Among the below mentioned brands, which can be made agreeable by eliminating some or all of one type of tealeaves?</p>	<p>A. One part Livana, one part Mathia, one part Novajana, four parts Piask  <b>B. One part Livana, two parts Novajana, one part Oxia, four parts Piask</b>            C. One part Livana, one part Mathia, one part Oxia, one part Piask            D. Two parts Livana, two parts Novajana, one part Oxia, two parts Piask            E. Two parts Mathia, one part Novajana, two parts Oxia, three parts Piask</p>
4	<p>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:</p> <p>A must be shown earlier than C.</p> <p>B must be shown earlier than D.</p> <p>E should be the fifth film shown.</p> <p>Q: In case D and E are shown as far apart from each other as possible, which among the following would be true?</p>	<p><b>A. A is shown earlier than B</b>            B. B is shown earlier than C            C. C is shown earlier than E            D. D is shown earlier than A            E. E is shown earlier than B</p>
5	<p>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.</p> <p>Each candidate should serve on exactly one of the committees.</p> <p>Committee A should consist of exactly one member more than that of committee.</p> <p>It is possible that there are no members of committee C. Among Z, Y and X none can</p>	<p>A. W and S            B. V and U            C. V and T            D. U and S</p>

It is possible that there are no members of committee C. Among Z, T and A 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.

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?

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:

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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.

- A. First
- B. Second
- C. Third
- D. Fourth
- E. Fifth

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

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:

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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.

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

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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

(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

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.

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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. 9
- B. 8
- C. 7
- D. 6
- E. 5

Q: of the nine individuals, the largest number that can serve together on committee C is

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Committee A should consist of exactly one member more than that of committee

- A. Z and Y
- B. Z and W

- 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 C. Among T, S and R none can serve on committee C.
- Q: In case T, S and X are the only individuals serving on committee B, the total membership of committee C should be:
- B. Z and W  
C. Y and V  
D. Y and U  
E. X and V

- 11 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 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.

- 12 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.
- Q: If only one interview takes place on Thursday which candidate could have that interview?
- A. Ali  
B. Amin  
C. Omer  
D. Saleem  
E. Osama

- 13 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: If I am elected, I will fight for changes effecting the growth and prosperity of the poor. We will work together to do away with the bureaucratic bogs which have existed ever since my opponent took office. Every one of you knows what I stand for; I invite my opponent to -----.
- A. Extend his support to me  
B. Make his mind clear  
C. Stop lying to the public  
D. Hand in his resignation graciously  
E. Get our city more federal aid

- 14 In an in vitro study, 160 white cats 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 statements would most seriously weaken the above discussion?
- A. People suffering from Kay fever are the victims of the golden viper of Sindh.  
B. One among the 160 white cats had already showed symptoms of Kay fever prior to the experiment.  
C. The natural habitats of white cats does not contain any of the elements found in Salt X.  
D. The 160 white cats used in the experiment were kept isolated from each other.  
E. The scientists administered the injections being ignorant of the contents of the salt used.

- 15 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 neighbours.
- A. B  
B. F  
C. A  
D. C  
E. D

neighbors.

E. D

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

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

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Q: About 20 percent of Pakistani husband think that wives with school going children should work outside the home. Only 10 percent of Iranian husband approves of mothers working if school going children live at home. Every other Pakistani wife and every third Iranian wife with school going children has a job outside her home. If the above statement is correct, which of the following must be true?

- A. Iranian women have fewer children than Pakistani women.
- B. Iranian husband would seem to be less satisfied about working wives who have school going children than Pakistani husbands.
- C. More Iranian than Pakistani wives work outside the home.
- D. Iranian husband is having more conservative attitudes than Pakistani husbands.
- E. Employment opportunities for Pakistani wives are greater than Iranian wives.

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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 involves nothing but uttering capricious and arbitrary opinion? In the above argument the author is trying to convince that

- 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.

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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.

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

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

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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: 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:

- 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.

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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, 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.