

NAT II Physical Science Analytical

Sr	Questions	Answers Choice
1	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: 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: Which of the following order of delivering report is not conformable with the conditions?	A. M, A, N, G, O, L, D B. M, D, N, G,L,O, A C. M, N, A,L, D, O,G D. M, N, A, O, D, L, G E. M, N, G, D, O, L, A
2	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: Among the following combinations which could constitute the membership of committee C?	A. Y and T B. X and U C. Y, X and W D. W, V and U E. Z, X, U and R
3	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 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.
4	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. 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?	A. First B. Second C. Third D. Fourth E. Fifth
	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.
- 3. Kiran is next to Pervaiz and Javed.

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- 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 ocupied 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

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 Hamza and Osama have their interviews on the same day which of the following be must be true?

- A. Hamza's interview will take place on Thursday
- B. Saleem's interview will take place on Friday
- C. Amin's interview take place on Saturday
- D. Osama's interview will take place on Saturday
- E. Amin's interview will take place on Sunday

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. B

B. F C. A D. C E. D

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- 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.
- 3. Kiran is next to Pervaiz and Javed.
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A 2

B. 3 C. 4

D. 5 E. 6

Selfishness is a principal evil in our society. Every person is concerned with only A. The greatest of society is altruism. himself. Personal advancement is the only motivating force in the world today. This B. We must all learn the art of love. does not mean that individuals are not willing to help one another, on the contrary, ----C. Our short-term actions may --. However, these are only short-term occurrences, which ultimately serve our contradict our long-term goals. 9 long-term goal of personal gain. D. Morality is the bedrock of a growing community. E. The forces of good will ultimately Q: Which among the following options would most strongly contradict the author;s triumph over evil. attitiude towards society? 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 B. 2 (iv) Ali's interview must take place on Saturday. 10 C. 3 (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 E. 5 (vii) Omer's interview must take place on a day after Hamza's interview. Q: If the director decides to take two interviews on Thursday and two on Sunday, how many candidates would be eligible to interview on Friday? 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 A. P and O. B. P and X C. X and Y 11 (iv) From X to Q and from X to Y D. X and Z E. X, P and Z (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: 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. 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. 12 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 E. A OFF, B ON, 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. Q: In case, switch A is OFF in the second setting. Which of the following could have been the default setting? 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.

A. N

B. L C. P

D. O

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 L is the second stop, which among the following must be the stop immediately before M?

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- (i) At least one interview will take place each day
- (ii) No more than two interviews will take place on any day

A. Ali

- B. Amin
- (iii) No more than three interviews will take place on any two consecutive days $% \left\{ \left(1\right) \right\} =\left\{ \left(1\right) \right\} =\left\{$

C. Omer
D. Saleem
E. Osama

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- (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. Men spend a lot of time on thinking about future

B. Science is the major hurdle in development
 C. Life in contingent so a man should

not think about his future.

D. Man is a social animal
E. Men are different from animals on
the basis of their reasoning abilities

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: Our beliefs regarding the world cannot be certain. Even well confirmed scientific theory is likely to change over a short period. If we do not try to understand, then it is like to be away from the human race. Undoubtedly, life is worth living in other respects -- as it is no mean thing to be an animal. It is also true that a man wishes to see this speculative domain beyond his next breakfast. From the above discussion it can be concluded that the author believes that

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A. A ON, B ON, C ON, B. A ON, B ON, C OFF, C. A ON, B OFF, C ON, D. A OFF, B OFF, C ON, E. A OFF, B OFF, C OFF,

Q: In case only switches B is ON in the default setting, what must be the second setting?

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:

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

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.

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: Drama Producers earn their profits primarily from advertising revenue, and potential advertisers are more likely to advertise on a TV with a wide network, a large number of cable operators. and other viewers. However, the coverage of the channel

A. The most profitable producer in the city receives revenue from its subscribes as well from advertisers. B. Advertisers generally switch from the most popular channel to another one only when the other one becomes the most popular instead. C. The number of channels competing viably with most profitable channel in the city has increased

during the last two years.

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	that is currently the most popular one in this city has steadily increased. Any of the following, if true, would help explain the apparent discrepancy between the two statements above EXCEPT:	D. The network of the most profitable TV channel in the city is still greater than of any of its competitors. E. Advertising rates charged by the most profitable TV channel in the city are significantly higher than those charged by its competitors.
19	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: 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 & amp; third speakers were captains.
20	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, 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