NAT II Physical Science Analytical

Sr	Questions	Answers Choice
1	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: 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 ture, weakness the conclusion above EXCEPT?	A. Sahiwal has larger population than Burewala. B. Most people of Burewala work in Sahiwal. C. Each people 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
2	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 C. Z to Q D. Z to R E. Z to Y
3	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, 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.
4	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: As any ecomist knows, healthy people pose less of an economic burden to society than unhealthy people. Not surprisingly, then, every rupee our government spends on prenatal care for undocumented immigrants will save taxpayers of this country three rupees. Which of the following, if true, would best explain why the statistics cited above are not surprising?	A. The taxpayers pay for prenatal care of all immigrants. B. Pregnant women who do not receive prenatal care are more likely to experience health problems than other pregnant women. C. Benefits for prenatal care serve to promote undocumented immigration. D. Babies whose mothers did not receives prenatal care are just as healthy as other babies. E. Babies born in this state to undocumented immigrant parents are entitled to infant care benefits from government.
	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	

5	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 three employees who are smokers should be seated in the offices.	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
6	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. 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
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8	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: Which of the following default settings leads to a second setting, where only one switch is OFF?	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.
9	A chemist is preparing a nutriment using eight different vitamins and minerals ….A, 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 (iv) C and H cannot be used together (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: Which of the following is a suitable combination of vitamins and minerals for a nutriment?	A. A, B, C, F B. D, E, H, Z C. A, D, E, Z D. C, D, E, F E. E, H, F, Z

10

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 must be shown earlier than C.

B must be shown earlier than D.

E should be the fifth film shown.

Q: In case exactly one film is shown between A and C, and exactly one film is shown between B and D, which among the following will hold true?

A. B is the film shown between A and C.
B. A is the film shown between B and D.
C. E is the film shown between A and C.
D. D is the last film shown.
E. E is the first film shown.

11

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 N is the fourth stop, which among the following must be the stop immediately before P?

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

12

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Q: Many people do not read the books they purchase. For example, seventeen percent of college students in Pakistan have text books, but only forty-five percent of them read more than once a year, and only seventeen percent read more than once a week. Which of the following, if true, casts doubt on the claim that most people read the books they purchase?

A. Regular book readers are most susceptible to eye diseases.
B. Readers often exaggerate about their book reading.
C. Many people buy books to pretend to be a scholar.
D. The sale of novels is more than that of other types.
E. Reading speed is increased by frequent reading.

13

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.

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?

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

14

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

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

15

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Q: In case B, D and E are to be shown one after the other in the given order, the position from first to fifth in which A could possibly be shown is

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

16

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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.

17

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

18

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.

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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

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

A. There are no future contingent things.
B. It is not true that the king has

19	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 Kng's knowledge is. However, no future contingent thing necessarily is. Among the following statements, which naturally follows from the above:	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.
20	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.