

NAT II Physical Science Analytical

Sr	Questions	Answers Choice
1	<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. E. Rubina is citizen either of Pakistan or of any other country.</p>
2	<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 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.</p> <p>Q: of the nine individuals, the largest number that can serve together on committee C is</p>	<p>A. 9 B. 8 C. 7 D. 6 E. 5</p>
3	<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 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.</p> <p>Q: Among the following combinations which could constitute the membership of committee C?</p>	<p>A. Y and T B. X and U C. Y, X and W D. W, V and U E. Z, X, U and R</p>
4	<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 ----- Q: Everything that a person does, which is dictated because of ignorance is not voluntary. Involuntary actions are those, which produce pain and repentance. In case a man has done something in his ignorance and he dose not feel vexed due to his action, he has not acted voluntarily as he was not aware of what he was doing, not yet involuntarily since he is not pained. After reading his passage we can arrive at the conclusion that:</p>	<p>A. A person is not a voluntary agent, if he acts by reason of ignorance and repents. B. If an action is done by reason of ignorance and is bot voluntary, then it was repented. C. a man is an involuntary agent, if he acts by reason of ignorance. D. Some actions are either involuntary or not voluntary. E. If a man is not voluntary agent, he acted because of ignorance and repents.</p>
5	<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 brancd 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. Livana and Mathia B. Livana and Novajana C. Livana and Piask D. Mathia and Oxia E. Piask and Novajana</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

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

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:

6 A must be shown earlier than C.

B must be shown earlier than 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?

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

7 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: There is clear evidence that the mandated vaccination of children under age four has resulted in fewer child fatalities over the past five years. Compared to the five-year period prior to the passage of laws requiring the vaccination, fatalities of children under age four have decreased by 30 percent. Which one of the following, if true, most substantially strengthens the argument above?

- A. The fatality rate for other age groups has remained steady over the past five years.
- B. Air pollution has been increased over the period of past five years.
- C. Government has implemented a malaria control campaign last year
- D. Health conditions in the country are better than has been previously.
- E. Death rate of pregnant women has decreased.

8 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 is 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

9 Rizwan was born in 1956, and so in 7965 he was nine years old. If we per 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. 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

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: As any economist 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.

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 Novaiana twice that of Livana.

- A brand containing Mathia, must also have equal quantity of Oxia.
- 11 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 of following which is an acceptable brand in accordance with the rules?

- A. One part Livana, one part Piask
 B. Two parts Mathia, two parts Livana
 C. Three parts Novajana, three parts Livana
 D. Four parts Oxia, four parts Mathia
 E. Five parts Piask, five parts Mathia

- 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.
- 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 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, all three switches are ON in the second setting, which among the following could have been the default setting?

- 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.
 E. A OFF, B ON, C 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 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.
- 13 Q: The author's discussion would be greatly weakened, if he agreed to which of the following?
- I- Technology could change the environment.
- II- War at the universal level would be an integral part of the environment.
- III- It is possible for the strong to survive without suppressing the weak.

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

- 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
- 14 (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 chemist is preparing a nutriment using eight different vitamins and mineralsA, 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
- 15 (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

- 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

(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?

16 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?

- A. A Guide to Pakistan's intinsic beauty
- B. Exploring the Great Outdoors
- C. The Quiet Beauty of Harappa
- D. how the Eagle Became Extinct
- E. Returning to Pakistan

17 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:

(i) At least six of the required twelve course must be from the environmental economics.

(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.

Q: The minimum number of regional economics courses required to fulfil the course distribution requirements is

- A. 1
- B. 3
- C. 5
- D. 2
- E. 4

18 A chemist is preparing a nutriment using eight different vitamins and mineralsA, 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: By the addition of exactly one more mineral, which of the following could make an acceptable combination of vitamins and minerals?

- A. A, D, Z
- B. B, H, E
- C. C, D, H
- D. C, E, Z
- E. E, H, F

19 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:

At most two classes can view the comet on any given night.

Class K cannot view the comet on the same night that Class N does.

Class L must view the comet on a night prior to the night when Class P views the comet.

Class O must view the comet on the same night that Class P does.

Q: If Class N Views the comet on Thursday, which of the following could be true?

- A. Class P views the comet on Tuesday.
- B. Class O views the comet on Thursday.
- C. Class L views the comet on Tuesday.
- D. Class L views the comet on Wednesday.
- E. Class K views the comet on Thursday.

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

- 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

caused by some elements similar to the elements in Salt X.

Q: Which of the following statements would most seriously weaken the above discussion?

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.