

## Analytical Test for HEC HAT 4 Biological, Medical Sciences

Sr	Questions	Answers Choice
1	<p>Choose the answer you think is most appropriate among the given options. Four captains and the first mates of three of them were called to attend the annual meeting at head quarters. 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) 19. In case A is the third of the first mates to speak, and L is the captain whose first mate is not present, which among the following statements must be true?</p>	<p>A. A spoke sometime before L  <span style="color: #008000;">B. D spoke sometime Before O.</span>  C. L spoke sometime Before O.  D. O spoke sometime Before L.  E. O spoke sometime Before N.</p>
2	<p>Choose the best answer; that is the response that most accurately and completely answers the question. About 20 percent of Pakistani husband think that wives with school going children to work outside the home. Only 10 percent of Iranian husband approves of mothers working if school going children live at home. Every day Pakistani wife and every third Iranian wife with school going children has a job outside her home. If above statement is correct, which of the following must be true?</p>	<p>A. Iranian women have fewer children than Pakistani women.  <span style="color: #008000;">B. Iranian husband would seem to be less satisfied about working wives who have school going children than Pakistani husbands.</span>  C. More Iranian than Pakistani wives work outside the home.  D. Iranian husband is having more conservative attitudes than Pakistani husbands are.  E. Employment opportunities for Pakistani wives are greater than for Iranian wives.</p>
3	<p>Choose the best answer; that is the response that most accurately and completely answers the question. 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 does not feel vexed due to his action, he has not acted voluntarily as he was not aware of what he was doing nor yet involuntarily since he is not pained. After reading this passage we can arrive at the conclusion that:</p>	<p><span style="color: #008000;">A. A person is not a voluntary agent, if he acts by reason of ignorance and repents.</span>  B. If an action is done by reason of ignorance and is not 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 a voluntary agent he acted because of ignorance and repents.</p>
4	<p>Choose the answer you think is most appropriate among the given options. 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 papers in the morning session before the lunch break whereas the other three will be presented in the afternoon session. The lectures have to be scheduled in such a way that they comply with the following restrictions: B's 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. 47. 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  <span style="color: #008000;">E. Fifth</span></p>
5	<p>Choose the answer you think is most appropriate among the given options. 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 papers in the morning session before the lunch break whereas the other three will be presented in the afternoon session. The lectures have to be scheduled in such a way that they comply with the following restrictions: B's 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. 48. In case F and E are the fifth and sixth presenters respectively then which of the following must be true?</p>	<p><span style="color: #008000;">A. A is first in the order of presenters.</span>  B. A is third in the order of presenters.  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.</p>
6	<p>Choose the answer you think is most appropriate among the given options. Three girls Joan, Rita, and Kim and two boys Tim and Steve are the only dancers in a dance program, which consists of six numbers in this order: One a duet; three a solo; four a duet; five a solo; and six a duet. None of the dancers is in two consecutive numbers or in more than two numbers. The first number in which Tim appears is the one that comes before the first number in which Kim appears. The second number in which Tim appears is one that comes after second number in which Kim appears. 49. Rita must perform only in duets if</p>	<p>A. Kim is in number two  B. Kim is in number five  C. Tim is in number one  <span style="color: #008000;">D. Tim is in number two</span>  E. Tim is in number six</p>
7	<p>Choose the best answer; that is the response that most accurately and completely answers the question. 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 Kings knowledge is. However no future contingent thing necessarily is. Among the following statements which naturally follows from the above:</p>	<p>A. There are no future contingent things.  B. It is not true that the king has knowledge of only necessary things.  <span style="color: #008000;">C. The king has knowledge of no contingent future things.</span>  D. It is not possible for us to know the king.</p>

8 Choose the best answer; that is the response that most accurately and completely answers the question. One's ability to adjust in environment successfully leads to happiness. What 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 weaklings 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.6. If Rubina was born in NWFP, then she is a citizen of Pakistan. The statement above can be deduced from which of the following statements?

E. The king has knowledge of everything.

A. Every citizen of the Pakistan is resident either of one of the province or of on of the tribal area.  
 B. Rubina was born either in NWFP or in Sindh.  
 C. Some people born in NWFP are citizen of Pakistan.  
 D. Every one born in Pakistan is a citizen of Pakistan.  
 E. Rubina is a citizen either of Pakistan or of any other country.

9 Choose the best answer; that is the response that most accurately and completely answers the question. Drama Producers earn their profits primarily from advertising revenue, and potential advertisers are more likely to advertise in TV with a wide network, a large number of cable operators and other views than with other channels. However the coverage of the channel that is currently the most popular one in this city has steadily declined during the last two years, while the coverage of one of its competitors has steadily increased. Any of the following if true would help explain the apparent discrepancy between the two statements above EXCEPT:

A. The most profitable producer in the city receives revenue from its subscribers 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 the most profitable channel in the city has increased during the last two years.  
 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.

10 Choose the best answer; that is the response that most accurately and completely answers the question. 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 themselves as a scholar.  
 D. The sale of novels is more than that of other types.  
 E. Reading speed is increased by frequent readings.

11 Choose the best answer; that is the response that most accurately and completely answers the question. One's ability to adjust in environment successfully leads to happiness. What 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 weaklings 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.5. What response would the author of the above discussion come up with in the case of the objection that the weaklings far exceed strong people? I. He would respond with the statement that the person making the objection is a weakling. II. He would respond by saying that weaklings will be miserable no matter what happiness. III. He would respond with the statement that the strong would be frustrated if the weaklings are destroyed.

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

12 Choose the answer you think is most appropriate among the given options. 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.5. 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

13 Choose the answer you think is most appropriate among the given options. Two or more tea leaves out of five varieties-- Livana, Mathia, Novajana, Oxia, and Piask are used in making all branded blends by a marketer following the rules given below. A brand containing Livana should also contain Novajana twice that of Livana. A brand 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 tea leaves.7. Among the 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

14 Choose the answer you think is most appropriate among the given options. 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 houses. i. Ayesha, Tahir, and Javed do not want to stay in any cottage which is at the end of the row. ii. Elena and Ayesha are unwilling to stay besides any occupied cottage. iii. Kiran is next to Pervaiz and Javed. iv. Between Ayesha and Javed's cottage there is just one vacant house. v. None of the girls occupies adjacent cottages. vi. The house occupied by Tahir is next to an end cottage. 3. 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

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

15 Choose the answer you think is most appropriate among the given options. New species of bacteria A, causes the infectious disease A. The first symptoms appear after two days since the bacteria A enters the body of the victim. The carrier for the bacteria is some flies, mosquitoes, and bees. A mosquito bit Javed on Monday, February 6. Farooq worked with Javed the next day, Tuesday, February 7. There were no other possibilities of exposure to disease A. In case Javed displayed symptoms of disease A, which would be true? Javed was also bitten by a fly on February 5. k. Javed was bitten by a mosquito, which carried the bacteria A. I. Farooq contracted Disease A from Javed.

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

16 Choose the answer you think is most appropriate among the given options. On a factory control room, there are three ON-OFF switches on central control panel, labeled A, B, and C. They are changed from 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 the 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 all switches, if any that are ON. 30. In case only switch B is ON in the default setting, what must be the second setting?

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.

17 Choose the answer you think is most appropriate among the given options. Four captains and the first mates of three of them were called to attend the annual meeting at head quarters. 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) 21. In case A spoke immediately after L and immediately before O, and O was not the last speaker, L spoke

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

18 Choose the answer you think is most appropriate among the given options. 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. 4. The ideal 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

19 Choose the answer you think is most appropriate among the given options. 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. 6. The ideal office for Mr. Mujahid would be

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

20 Choose the answer you think is most appropriate among the given options. Two or more tea leaves out of five varieties-- Livana, Mathia, Novajana, Oxia, and Piask are used in making all branded blends by a marketer following the rules given below. A brand containing Livana should also contain Novajana twice that of Livana. A brand 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 tea leaves. 8. Adding more amount of Novajana will make which of the following brands conformable with the conditions?

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