

## Analytical Test for HEC HAT 1 Engineering & IT

Sr	Questions	Answers Choice
1	Choose the best answer; that is the response that most accurately and completely answers the question. 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	<p>A. Men spend a lot of time on thinking about future</p> <p>B. Science is the major hurdle in development</p> <p>C. Life is contingent so a man should not think about his future.</p> <p>D. Man is a social animal</p> <p>E. Men are different from animals on the basis of their reasoning abilities</p>
2	Choose the answer you think is most appropriate among the given options. 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. 38. Which among the following is a pair of films that CANNOT both be shown earlier than E?	<p>A. A and B</p> <p>B. A and D</p> <p>C. B and C</p> <p>D. B and D</p> <p>E. C and D</p>
3	Choose the best answer; that is the response that most accurately and completely answers the question. The Rawalpindi city council started a publicity campaign for convincing the people to use public transport rather than their own transport in the city. After two months later there was a decrease in private transport on the roads in the mid city area. The city council claimed that their publicity campaign was successful to convince people to leave their cars at home and ride the city bus service to work. Which of the following if true create the most serious doubt on the conclusion drawn above?	<p>A. There was a subsequent increase in the use of CNG.</p> <p>B. The busiest roads of the city have been damaged because of continual floods in Nala Layee for last five months.</p> <p>C. People are busy enough to bring their vehicles on the roads.</p> <p>D. City council expended a lot of money to make the campaign successful.</p> <p>E. The number of cars has increased due to Bank loaning in the city.</p>
4	Choose the answer you think is most appropriate among the given options. 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. 35. In case C is shown earlier than E Which among the following will hold true?	<p>A. A is the second film shown.</p> <p>B. B is the second film shown.</p> <p>C. C is the third film shown.</p> <p>D. D is the fourth film shown.</p> <p>E. E is the fourth film shown.</p>
5	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:	<p>A. The most profitable producer in the city receives revenue from its subscribers as well from advertisers.</p> <p>B. Advertisers generally switch from the most popular channel to another one only when the other one becomes the most popular instead.</p> <p>C. The number of channels competing viably with the most profitable channel in the city has increased during the last two years.</p> <p>D. The network of the most profitable TV channel in the city is still greater than of any of its competitors.</p> <p>E. Advertising rates charged by the most profitable TV channel in the city are significantly higher than those charged by its competitors.</p>
6	Choose the answer you think is most appropriate among the given options. 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. 43. In case L is the second stop, which among the following must be the stop immediately before M?	<p>A. N</p> <p>B. L</p> <p>C. P</p> <p>D. O</p> <p>E. Q</p>
7	Choose the best answer; that is the response that most accurately and completely answers the question. In an examination Rizwana has more marks than the Fauzia. Shugufta has fewer marks than the Zahid, Fauzia and Abid have more marks than Shugufta. If the above is true, which of the following must also be true?	<p>A. The Fauzia has fewer marks than the Shugufta.</p> <p>B. Rizwana has more points than the Shugufta</p> <p>C. Fauzia has fewer points than Zahid.</p> <p>D. Zahid has more points than the Rizwana.</p> <p>E. Zahid has more points than Abid.</p>
		<p>A. People suffering from Kay fever are the victims of the golden viper of ...</p>

8	<p>Choose the best answer; that is the response that most accurately and completely answers the question.</p> <p>Q,1-2. In an in vitro study 160 white cats were injected with Salt X. 160 other white cats were injected with placebo. In two weeks 39% of the white cats who were injected with Salt X showed symptoms of Key fever? Hence it can be concluded that key fever is caused by some elements similar to the elements in Salt X.</p> <p>1. Which of the following statements would most seriously weaken the above discussion?</p>	<p>Sindh.</p> <p>B. One among the 160 white cats had already showed symptoms of Kay fever prior to the experiment.</p> <p>C. The natural habitats of white cats does not contain any of the elements found in Salt X.</p> <p>D. The 160 white cats used in the experiment were kept isolated from each other.</p> <p>E. The scientists administered the injections being ignorant of the contents of the salt used.</p>
9	<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.45. In case C is to be the fifth scientist to present his paper, then B must be.</p>	<p>A. First</p> <p>B. Second</p> <p>C. Third</p> <p>D. Fourth</p> <p>E. Sixth</p>
10	<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</p> <p>B. Kim is in number five</p> <p>C. Tim is in number one</p> <p>D. Tim is in number two</p> <p>E. Tim is in number six</p>
11	<p>Choose the best answer; that is the response that most accurately and completely answers the question. In an in vitro study 160 white cats were injected with Salt X. 160 other white cats were injected with placebo. In two weeks 39% of the white cats who were injected with Salt X showed symptoms of Key fever? Hence it can be concluded that key fever is caused by some elements similar to the elements in Salt X.3. Wall chalking on public property should be outlawed. Radicals and fanatics have no right to use public property when promoting their unsavory views. The argument above is based on the idea.</p>	<p>A. The general public has an interest in the free exchange of different political views.</p> <p>B. Every person who uses wall chalking for the promotion of ideas is a radical or fanatic,</p> <p>C. Radicals and fanatics prefer the use of public property while propagating their viewpoint.</p> <p>D. Legal constraints should be equal for all</p> <p>E. Any promotional activity which is against public interest should be protected by law</p>
12	<p>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.29. In case in default setting the swithes A and B are ON and the switch C is OFF, then what could be the second setting?</p>	<p>A. A ON, B ON, C ON.</p> <p>B. A ON, B OFF, C ON.</p> <p>C. A ON, B OFF, C OFF.</p> <p>D. A OFF, B ON, C OFF.</p> <p>E. A OFF, B OFF, C ON.</p>
13	<p>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. Wat 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.4. 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.</p>	<p>A. I only</p> <p>B. II only</p> <p>C. III only</p> <p>D. I and III only</p> <p>E. I, II and III only</p>
14	<p>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.</p>	<p>A. A,B and D</p> <p>B. B,C and F</p> <p>C. A,B and E</p> <p>D. A,B and C</p> <p>E. A,B and F</p>
15	<p>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. Wat 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</p>	<p>A. I only</p> <p>B. II only</p> <p>C. III only</p> <p>D. I and II only</p> <p>E. II and III only</p>

destroyed.

- 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. 33. 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.
- 17 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?
- A. A is first in the order of presenters.  
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.
- 18 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. 2. How many of them occupy cottages next to a vacant cottage?
- A. 2  
B. 3  
C. 4  
D. 5  
E. 6
- 19 Choose the answer you think is most appropriate among the given options. 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. 44. In case a passenger gets on the bus at O, rides past one of the stops, and gets off at P, which of the following must be true?
- A. O is stop one.  
B. Q is stop three.  
C. P is stop four.  
D. N is stop five.  
E. L is stop six.
- 20 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. 25. In case Farooq displayed symptoms of disease A, which among the following would be true? g. Javed contracted the Disease A from Farooq. h. Javed first noticed symptoms of Disease A on February 8. i. The fly that Javed was bitten by was not a carrier of the bacteria A.
- A. I only  
B. II only  
C. III only  
D. II and III only  
E. I, II and III