

Analytical Test for HEC HAT 2 Management Sciences and Business Education

Sr	Questions	Answers Choice
1	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. 31. In case all the 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.
2	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
3	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. 32. In case switch A is OFF 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 ON, C OFF. C. A ON, B OFF, C ON. D. A ON, B OFF, C OFF. E. A OFF, B ON, C OFF.
4	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
5	Choose the answer you think is most appropriate among the given options. 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. Committees A should consist of exactly one member more than that of committees B. It is possible that there are no members of committees 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. 13. Of the nine individuals, the largest number that can serve together on committee C is	A. 9 B. 8 C. 7 D. 6 E. 5
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?	A. N B. L C. P D. O E. Q
7	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
8	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	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

	<p>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>	<p>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>
9	<p>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>	<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>
10	<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>A. A is first in the order of presenters.</p> <p>B. A is third in the order of presenters.</p> <p>C. A is fourth in the order of presenters.</p> <p>D. B is first in the order of presenters.</p> <p>E. C is fourth in the order of presenters.</p>
11	<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. 30. In case only switch B is ON in the default setting. what must be the second setting?</p>	<p>A. A ON, B ON, C ON.</p> <p>B. A ON, B ON, C OFF.</p> <p>C. A ON, B OFF, C ON.</p> <p>D. A OFF, B OFF, C ON.</p> <p>E. A OFF, B OFF, C OFF.</p>
12	<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>
13	<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. 2. Which of the following would most strengthen the argument above?</p>	<p>A. Some of the elements in Salt X are extracted from the root of a certain poisonous herb of Hunza.</p> <p>B. The blood test of the victims of Kay fever revealed the presence of a toxic element in their blood, normally found in salt X.</p> <p>C. Almost all the white cats died within two days after the first symptom appeared.</p> <p>D. Normally the rate of Kay fever among white cats is less than 0.01 %.</p> <p>E. Within two weeks about 40 % of the white cats who were injected with placebo also contracted Kay fever.</p>
14	<p>Choose the answer you think is most appropriate among the given options. Multan Institute of Higher Studies planes 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 shown earlier than C. B must shown earlier than D. E should be the fifth film shown. 37. Which among the following is an acceptable order for showing the educational films?</p>	<p>A. A, C, B, D, E</p> <p>B. A, C, D, E, B</p> <p>C. B, D, C, A, E</p> <p>D. B, D, E, A, C</p> <p>E. E, B, C, A, D</p>
15	<p>Choose the answer you think is most appropriate among the given options. Multan Institute of Higher Studies planes 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 shown earlier than C. B must shown earlier than D. E should be the fifth film shown. 40. In case B, D and E are to be shown one after the order in the given order. the two positions from first to fifth in which A could possibly be shown are</p>	<p>A. First and second.</p> <p>B. First and fourth.</p> <p>C. Second and third.</p> <p>D. Third and fifth.</p> <p>E. Fourth and fifth.</p>
16	<p>Choose the answer you think is most appropriate among the given options. 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. Committees A should consist of exactly one member more than that of committees B. It is possible that there are no members of committees 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. 12. In case T and Z are the individuals serving on committee A, members of the other committees should serve on committee C.</p>	<p>A. 3</p> <p>B. 4</p> <p>C. 5</p> <p>D. 6</p> <p>E. 7</p>

on committee B, how many of the nine individuals should serve on committee C?

17	<p>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. 1. Which of the above statements can be said to have been derived from two other statements?</p>	<p>A. Statement 1 B. Statement 2 C. Statement 3 D. Statement 5 E. Statement 6</p>
18	<p>Choose the answer you think is most appropriate among the given options. 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. Committees A should consist of exactly one member more than that of committees B. It is possible that there are no members of committees 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. 15. 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?</p>	<p>A. R B. Y C. W D. T E. S</p>
19	<p>Choose the best answer; that is the response that most accurately and completely answers the question. Some critics are of the opinion that the intrinsic qualities of photography depend on criticism and hence it is a matter of opinion. It is rather odd, though, that in a legal connections serious critics themselves quite often behave as if they believed criticism to be a matter of opinion. Why be a critic and teach in universities in case criticism involves nothing but uttering capricious and arbitrary opinions? In the above argument the author is trying to convince that</p>	<p>A. The qualities of photography are not dependent on criticism. B. Critics seem hypocritical. C. People can not judge the art work D. Photography is an art independent of your opinion. E. Artists should teach at universities.</p>
20	<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) 20. Among the following statements which statement must be true?</p>	<p>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 captain. C. In case the third speaker was a first mate, the seventh speaker was 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 and third speakers were captains.</p>