GAT-B Arts, Humanities & Social Science Analytical

Sr	Questions	Answers Choice
1	In a computer data transfer-cable plant,cables are assembled by twisting plastic-coated wires together.There are wires of exactly six different solid colours---red,purple,pink,green,orange and book --wires must be assembled into single cables according to the following rules:Each cable must contain at least three wires and wires of at least three different colours.These cables are joined by the following rules:At most two wires in a single cable can be black.At most two wires in a single cable can be orange.There can be at most one wire of each of the other colours in a single cable.If one wire is red,then one wire must be purple.If one wire is pink,then no wire can be green.Q.Which of the following could be the complete set of wires in an acceptable cable?	A. A green wire,an orange wire,and a pink B. A pink wire,a black wire,and an orange wire. C. A red wire a black wire and a green wire. D. A purple wire and exactly two black wires. E. Exactly two black wires and exactly two orange wires
2	Four computer operators (Ali,Babar,Cheema and Dar) each have to perform duties at the NADRA on four different days Thursday through Sunday.The following is their duty schedule: Cheema has his duty day before Ali.Dar has his duty day later than Babar.Q-Which of the following is a possible order of duty days for the four operators?	A. Cheema, Dar, Ali and Babar B. Dar,Cheema, Ali and Babar C. Babar,Cheema,Dar and Ali D. Ali,Cheema,Dar and Babar E. Ali,Babar,Dar and Cheema
3	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 presentations have to be scheduled in such a way that they comply with the following conditions: B should present his paper immediately before C's presentation; their presentations cannot be separated by the lunch break. D must be the first or the last scientist to present his paper. Q: If F is to present his paper immediately after D,C could be scheduled for which of the following places in the order of presenters?	A. First B. Second C. Third D. Fourth E. Fifth
4	In a shopping mall, six steps lead from the first to the second floor. Four peoples A, B, C, and D are to go from first floor to the second floor following the rules given below. No two people can be on the same step. A is two steps below C. B is a step next to D. Only one-step is vacant (No one standing on that step). Denote the first step by step I and second step by step 2 etc. Q: If B was on step 1, which step could A be on?	A. 2 and 5 only B. 3 and 5 only C. 3 and 4 only D. 4 and 5 only E. 2 and 4 only
5	Society for special education is to prepare seven blind students for national Naat competition in the month of Ramzan. Controller for academics of the society selects seven students —Tahir, Usman, Veena, Waseem, Ghias, Yasin, and Zafar. For this purpose, the students are to give a recital, and their instructor is deciding the order in which they will perform. Each student will perform exactly one Naat. In deciding the order of performance, the instructor must observe the following restrictions: Ghias cannot perform first or second. Waseem cannot perform until Ghias has performed.Neither Tahir nor Yasin can perform seventh. Either Yasin or Zafar must perform immediately after Waseem performs. Veena must perform either immediately after or immediately before Usman performs. Q:If Usman performs third, what is the latest position in which Yasin can perform?	A. First B. Second C. Fifth D. Sixth E. Seventh
6	According to Albert Einstein's famous theory of relativity,time travel is theoretically possible,If we assume that time travel were to be possible through some technological wonder,it would be advantageous to send someone back in time to prevent the assassination of Archduke Franz Ferdinand in 1914 and thus keep Word War I from ever occurring.Q-The argument above makes which of the following assumptions?	A. The technology necessary for time travel is likely to be developed in the near future. B. If the time travel were to be developed in the future,evidence of time travelers would be apparent to those living today. C. It is not possible to alter a significant current in world history merely by changing a single event. D. If Franz Ferdinand had not been assassinated,some other catalytic event would have led to the start of World War I. E. The assassination of Franz Ferdinand was the crucial event that triggered the start of Word War I.
7	Nine individuals - Z, Y, X, W, V, U, T, S and R are to serve on three committees labeled A, B and C. Each candidate should serve on exactly one of the committees. Committee A should consist of exactly one member more than that of committee B. 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	A. 3 B. 4 C. 5

	C. Q:In case T and Z are the individuals serving on committee B, how many of the nine individuals should serve on committee C?	D. 6 E. 7

8	In a scout training institute, there are three categories strikers, defenders, and helpers. Eight scouts are selected from these categories for learning to follow two commands —"attack" And "revert." At least one scout is selected from one category. All female scouts in the group are defenders. The results of the first lesson are as follows: At least: two of the scouts have learned to follow the "attack": command, but not the "revert" command. At least two of the.scouts have. learned to follow the "revert" command, but not the "attack" command. At least one of the scouts has learned to follow both commands. Among the eight scouts, only helpers have learned to follow the "revert" command. Q:If each scout has learned to follow at least one of th,(wo,commands, all of the following must tote EXCEPT:	A. All defenders have learned to attack B. All strikers have learned to attack C. All helpers have learned to revert D. No defender has learned to revert E. No striker has learned to revert

9	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 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. first B. second C. third D. fourth E. fifth

10	In a city, police commissioner planed to educate the citizens the traffic rules. He arranged a separate department and appointed senior staff members as instructors. Students in this class are required to meet the chief instructor once per term. The chief instructor offers meeting times on one day, one meeting time in the morning, one in the afternoon, and one in the evening. The students in the class this term are Farid, Gia, Hamid, Javed, Kamran, Lubna, Majeed, and Nargis. The meetings with the chief instructor must conform to the following conditions: The chief instructor will not meet with only one student at a time. The chief instructor must meet with at least one student in each of the available meeting times. ',arid and Javed cannot attend the same meeting. Kamran and Majced cannot attend the same meeting. If Gia attends the morning meeting, then Kamran must attend the evening meeting. If Javed attends the afternoon meeting, then Hamid must attend the afternoon meeting. The number of students who meet in the morning must be the same as the number of students who meet in the evening. Q:If Gia meets in the morning and Lubna and Nargis meet in the evening, then how many different possible meetings could there be in the afternoon?	A. 2 B. 3 C. 4 D. 5 E. 6

11	Individual members from animal species are to be chosen from a special exhibit habitat.The eight species are A,B,C,D,E,F,G and H.Because of the way these animals interact,certain guidelines must be followed.Animals that will fight cannot be placed in the habitat together.Members of species G will fight with members of species D,E and F.A member of species C will fight with a member of species B,but only if a member of species G is present.If a member of species H is present,a member if species A will not fight with any animal.If a member of species No fights other than those described above will occur.If two habitats are setup,one containing members of species A,B,H and G,and the other containing members of species D,F,C and E,which animals could be switched one for the other without provoking any fights?	A. Species H and F B. Species B and C C. Species A and C D. Species G and D E. Species H and E

12	Each of the following problems has a question and two statements which labeled 1 and 2.Use the data given in 1 and 2 together with other information given in the statement,and find a correct answer by using basic mathematics and and everyday facts.Q-How many bulbs does Munir have?1. He bought two boxes each containing 12 bulbs.2. He lent three bulbs to Khalid.	A. Statement 1.Alone is sufficient but 2. ALONE is not sufficient to answer this question. B. Statement 2.ALONE is sufficient but 1.ALONE is not sufficient to answer this question, C. Statements 1 and 2.TOGETHER are sufficient to answer the question but NEITHER of them is sufficient ALONE. D. Statements 1 and 2 COMBINED are not sufficient to answer the question and additional information is needed to find the correct answer.

13	An English speaking class in a college has a circular table with eleven seats around it.Five girls (Fatima,Maryam,Iram,Sana and Amna)and five boys (Bilal,Najam,Hamza,Osama,Javed) are seated around the table.None of the girls are seated in a seat adjacent to another girl.Fatima sits between Bilal and Najam, and next to each of them javed does not sit next to Osama.Q-If Maryam,Hamza,Iram,Javed and Najam are seated in that order,which of the following is a correct completion of the seating order after Najam?	A. Fatima,Bilal,Sana,Osama,Amna,empty seats B. Fatima,Bilal,Osama,Sana,empty seat Amna C. Bilal,Amna,Fatima,Osama,Sana,empty seats D. Fatima,Bilal,Amna,Osama,empty seats,Sana E. Fatima,Bilal,Sana,empty seats,Amna,Osama

#	Question	Options
14	Two or more tealeaves 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. Q: Among the following, which can be made agreeable by the eliminating some or all of one type of tealeaves?	A. One part Livana, one part Mathia, one part Novajania, four parts Piask **B. One part Livana, two parts Novajania, one part Oxia, four parts Piask** C. One part Livana, one part Mathia, one part Oxia, one part Piask D. Two parts Livana, two parts Novajana, one part Oxia, two parts Piask
15	A carrier must deliver mail by making a stop at each of six buildings: S,T,U,V,W and X,Mail to be delivered are of two types,ordinary mail and priority mail.The delivery of both types of mail is subject to the following conditions:Regardless of the type of mail to be delivered mail to W and mail to X must be delivered,mail to W and mail to X must be delivered before mail to U is delivered,Regardless of the type of mail to be delivered,mail to T and mail to S must be delivered before mail to X is delivered.Mail to buildings receiving some priority mail must be delivered,as far as the above conditions permit,before mail to buildings receiving only ordinary mail.Q-If only one buildings is to receive priority mail,and as a result,V can be no earlier than fourth in the order of buildings which of the following must be the building receiving priority mail that day?	A. S B. T C. U D. W **E. X**
16	In a room,six people,P,Q,R,S,M and N are seated about a round table.Every chair is placed equidistant from adjacent chairs.1.M is seated next to R.2.S is seated 3 seats from R.3.P is seated 2 seats from N.Q-Which of the following is necessarily true?	A. The linear distance from S to R is greater than the linear distance from N to M. B. The linear distance from P to Q is equal to the linear distance from M to N. **C. The linear distance from R to M is equal to the linear distance from P to S.** D. The linear distance from M to Q is equal to the linear distance from P to M. E. The linear distance from R to S is equal to the linear distance from P to Q.
17	A publisher chooses five articles to be published in the upcoming issue of an arts review.The only articles available for publication are theater articles L,M,N and O and dance articles W,X,Y,and Z.At least three of the fire published articles must be dance articles.If O is chosen,then Y Cannot be.If L is chosen,then O must also be chosen.Q-The choice of which article makes only one group of articles acceptable?	**A. L** B. M C. O D. X E. Y
18	Each of the following problems has a question and two statements which labeled 1 and 2.Use the data given in 1 and 2 together with other information given in the statement,and find a correct answer by using basic mathematics and and everyday facts.Q-Can there be more than 150 pictures in a 30-page book?1.There is at least two pictures in cash page.2. There are no more than 4 pictures in any page.	A. Statement 1.ALONE is sufficient but 2. ALONE is not sufficient to answer this question. **B. Statement 2.ALONE is sufficient but 1.ALONE is not sufficient to answer this question,** C. Statements 1 and 2.TOGETHER are sufficient to answer the question but NEITHER of them is sufficient ALONE. D. Statements 1 and 2 COMBINED are not sufficient to answer the question and additional information is needed to find the correct answer.
19	A city map representing roads M,N,O,P,Q and R.Link roads cannot have the same colour in the map.The roads link to each other are as under:Each M,N,P and Q has link to O.P has a link to Q.Each of M and N has a link to R.Which of the following roads can be the same colour as O on the map?	A. N B. P C. Q **D. R**
20	Nine athletes attend a sports banquet at Iqbal Stadium,Lahore.Three of the athletes--A,B and C--are varsity football players,two of the athletes---D and E--are varsity basketball players.The other four athletes--L,M,N,and O --belong to the hockey club.All nine athletes will be seated at three small tables,each seating three athletes.The athletes must be seated according to the following rules:L and A do not sit at the same table.M sits together with at least one of B or D.There can be at most only one football player at a table.There can be at most only one basketball player at a table.Q-Which of the following must be true?	A. A is sitting with a basketball player. B. Exactly one hockey player is sitting at C's table. C. No hockey players sit at one tables. D. A basketball player is sitting with L. **E. A football player sits with two hockey players.**