

## GAT-B Arts, Humanities & Social Science Analytical

Sr	Questions	Answers Choice
1	During 2006, from January through June, the Chairman of Physics Department will be on Sabbath. The Dean of college has asked each of the college six professors into the department---Akhter, Bilal, Chohan, Fraz, Hamid and Noman---to serve as acting chairman during one of these months. The physicists can decide the order in which they will serve, subject only to the following criteria established by the dean. i. Chohan will serve as chairman in February. ii. Akhter will serve as chairman before Hamid does. iii. Bilal and Fraz will serve as chairman in consecutive months. Q-If Noman serves in April, all of the following could be true except?	A. Akhter serves in January B. Hamid serves in March C. Bilal serves in May D. Bilal serves in June E. Hamid serves in June
2	Two statements, labeled X and Y, follow each of the following questions. The statements contain certain information. In the questions you do not actually have to compute an answer rather you have to decide whether the information given in the statement X and Y is sufficient to find a correct answer by using basic mathematics and everyday facts. Q-In a B.Sc class at G.C University, 40 boys and 15 girls registered for Calculus and Analytical geometry. How many boys passed the course? X-7 students could not pass. Y-There were 3 girls who obtained A grade.	A. Statement X Alone is sufficient but Y Alone is not sufficient to answer this question. B. Statement Y Alone is sufficient but X Alone is not sufficient to answer this question. C. Statement X and Y TOGETHER are sufficient to answer the question but NEITHER of them is sufficient Alone. D. Statements X and Y COMBINED are NOT sufficient to answer the question and additional information is needed to find the correct answer
3	The accounts staff of the Mark corporation presently consists of three book-keepers (X, Y and Z) and five Data Entry Operators (M, N, O, P and Q). Management is planning to open a new office in another city sending three Data Entry Operators and two book-keepers from the present staff. To do so they plan to separate certain individuals who do not function well together. The following guidelines were established to set up the new office: (i) Book-keepers X and Z are constantly finding faults with one another therefore should not be sent together to the new office. (ii) Z and N function well alone but not as a team. They should be separated. (iii) M and P have not been on speaking terms for many months they should not go together. (iv) Since M and O have been competing for a promotion they should not be in one team. Based on the above information find the correct answers to the following questions: Q-If X is to be moved as one of the book-keepers, which of the following CANNOT be a possible working unit?	A. X Y M N Q B. X Y N O Q C. X Y M P Q D. X Y N P Q
4	All R's are either P's or Q's. All P's are R's. All Q's are R's. No Y's are Z's. Some Q's are Z's. Not all Z's are R's. Q-5. Which of the following could not be true? I. No Y's are R's. II. No Y's are P's. III. No Z's are R's. IV. No Y's are Q's	A. I only B. II only C. III only D. IV only E. I and IV only
5	During 2006, from January through June, the Chairman of Physics Department will be on Sabbath. The Dean of college has asked each of the college six professors into the department---Akhter, Bilal, Chohan, Fraz, Hamid and Noman---to serve as acting chairman during one of these months. The physicists can decide the order in which they will serve, subject only to the following criteria established by the dean. i. Chohan will serve as chairman in February. ii. Akhter will serve as chairman before Hamid does. iii. Bilal and Fraz will serve as chairman in consecutive months. Q-Which of the following professors could serve as chairman in January?	A. Bilal B. Chohan C. Fraz D. Hamid E. Noman
6	Each of the following problems has a question and two statements which are 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 everyday facts. Q-Can there be more than 150 pictures in a 30-page book? 1. There is at least two pictures in each 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.
7	"The sum of behaviour is to retain a man's dignity without intruding upon the liberty of others." stated Sir Francis Bacon. If this is the case then not intruding upon another's liberty is impossible. Q. The conclusion strongly implied by the author's arguments is that?	A. Retaining one's dignity is impossible without intruding upon another's liberty. B. Retaining dignity never involves robbing others of liberty. C. Dignity and liberty are naturally exclusive. D. There is always the possibility of a "disturbed situation"

- 8 Two statements, labeled (1) and (2), follow each of the following given questions. The statements contain certain information in the question you do not actually have to compute an answer, rather than you have to decide whether the information given in the statements (1) and (2) is sufficient to find a correct answer by using basic mathematics and everyday fact? Q-If it is raining then there must be clouds. Are there clouds? 1. Today is Saturday. It is not raining. 2. It rained Friday.
- 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.

- 9 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.  
Q: Which among these statement(s) are true?  
I Ayesha is between Elena and Javed  
II At the most four persons can have occupied cottages on either side of them  
III Tahir stays besides Pervaiz
- A. I only  
B. II only  
C. I and III only  
D. II and III only

- 10 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.

- 11 On a factory control room, there are three ON-OFF switches on 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..  
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 the three switches are ON in the second setting, which among the following could have been the default setting?
- A. AON, BON, CON  
B. AON, BON, COFF  
C. AON, BOFF, CON  
D. AON, BOFF, COFF  
E. AOFF, BON, COFF

- 12 Light bulbs that emit lower-intensity light save energy by requiring less electricity. Therefore, if homeowners use only low-intensity light bulbs, their electric bills will decrease. Q-Which of the following represents a necessary assumption for the above argument?
- A. Low-intensity light bulbs are less  
expensive than more standard light  
bulbs.  
B. By lowering electricity  
use, homeowners can help decrease  
pollution levels in their communities.  
C. The low-intensity light bulbs are  
as effective in providing light as  
standard light bulbs.  
D. Homeowners are always  
concerned with lowering their utility  
bills.

- 13 The customer complaint department of a chain of departmental stores firm employs exactly six people who answer letters: A, B, C, D, E and F. Every complaint letter received by the departmental is classified as either Red or Blue. The procedures for answering the letter are: Red letters are given first to A or B. Blue letters are given first to anyone of the following: A, D or C. If a letter raises a problem that cannot be resolved by the person to whom it is given, it must be forwarded until it reaches someone who can resolve the problem and answer the letter. A letter must be forwarded as follows: By A to C if the letter is Red, but to D if the letter is Blue; By B to either A to C; By C to D if the letter is Red, but to E if the letter is Blue; By D to either C or E whether the letter is Red or Blue; By E to F whether the letter is Red or Blue. F answer every letter given to him. Q-If a member of the consumer complaint department is given a letter that he or she had previously given to some other member of the department, the person who is given the letter a second time could be?
- A. A  
B. B  
C. D  
D. E  
E. F

14	<p>committee as special representatives to meet the requirements of college's sports activities. The committee consists of eight members four of which (K, L, M and N) are sports teachers whereas the other four (P, Q, R and S) are students. The four representatives must consist of exactly two sports teachers and two students. Either K or L must be one of the representatives but K and L both cannot be the representatives. If P is a representative then L cannot be a representative. Q-If K and N are representatives then which of the following is not a representative?</p>	<p>A. Q B. R C. P D. None</p>
15	<p>Three women--X, Y, and Z are traveling in a van with five children--A, B, C, D and E. The van has a driver's seat and one passenger seat in the front and two benches behind the front seats, one bench behind the first. Each bench has room for exactly three people. Every one must sit in a seat or on a bench and seating is subject to the following restrictions: A women must sit on each bench. Either X or Y must sit in the driver's seat. C must sit immediately beside E. Q-If Y sits on a bench that is behind where C is sitting which of the following must be true?</p>	<p>A. B sits in a seat or on a bench that is in front of where E is sitting B. D sits in a seat or on a bench that is in front of where A is sitting C. A sits on the same bench as B D. D sits on the same bench as Y E. E sits on the same bench as Z</p>
16	<p>Two statements, labeled X and Y, follow each of the following questions. The statements contain certain information. In the questions you do not actually have to compute an answer rather you have to decide whether the information given in the statement X and Y is sufficient to find a correct answer by using basic mathematics and everyday facts. Q-A runner has just completed 46 miles running. How long did it take him to finish the journey? X- His record speed is 13.2 miles per hour. Y- His average speed through the journey was 9.2 miles per hour.</p>	<p>A. Statement X Alone is sufficient but Y Alone is not sufficient to answer this question. B. Statement Y Alone is sufficient but X Alone is not sufficient to answer this question. C. Statement X and Y TOGETHER are sufficient to answer the question but NEITHER of them is sufficient Alone, D. Statements X and Y COMBINED are NOT sufficient to answer the question and additional information is needed to find the correct answer.</p>
17	<p>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 black--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-If exactly one black wire and exactly one orange wire are used in an assembled cable, which of the following must be true?</p>	<p>A. The cable contains no more than five wires. B. The cable contains a purple wire. C. The cable does not contain a pink wire. D. The cable does not contain a red wire. E. The cable contains exactly six wires.</p>
18	<p>Travelers may enter and remain in the republic for up to 57 days. If a traveler is to stay for more than seven days, however, a special visa is required. Q-10. If the statements above are true, which of the following must also be true?</p>	<p>A. Travelers who are staying in the Republic for 15 days must have a special visa. B. Many travelers who stay in the Republic do not need a visa. C. Some travelers who stay in the Republic for more than seven days do not have to appropriate visas. D. Travelers who stay less than seven days in the Republic do not need visas.</p>
19	<p>During practice matches, before a major tournament, in a football ground, one team can practice at a time. There are seven teams-- the Argentine, the Brazil, the Senegal, the Dubai, the England, the France and the Germany. The football ground is open seven evenings a week from Monday to Sunday (Sunday being considered the last day of the week), and the allocation of the practice times is governed by the following rules: i. On any evening only one team can play. ii. The Argentine must practice on Monday. iii. The Dubai practice exactly one day before the France practice. iv. The France practice exactly one day before the Germany practice. v. The Senegal and the Brazil must practice earlier in the week than the England. Q-If the France practice on Saturday, the England must practice on what day?</p>	<p>A. Tuesday B. Wednesday C. Thursday D. Friday E. Sunday</p>
20	<p>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 S is the only building receiving priority mail, which of the following lists the buildings in an order, from first through sixth, in which they can receive their mail?</p>	<p>A. T, S, W, X, V, U B. S, T, W, U, X, V C. S, T, W, U, X, V D. S, W, T, X, V, U E. V, S, T, W, X, U</p>