Analytical Reasoning

Application Based Questions

Q.1. Passage based questions:

- **1.** Study the following information carefully to answer the questions that follow:
 - Kamal is available at home from 12 noon to 4 p.m. on Tuesday, Thursday and Sunday.
 - His younger brother Navin is available at home on Monday, Thursday, Friday and Sunday between 10 a.m. and 2 p.m.
 - The eldest brother Rajiv is avilable between 9 a.m. and 12 noon on Monday, Wednesday and Thursday; and between 2 p.m. to 4 p.m. on Friday, Saturday and Sunday.
 - (i) At a time; on which day of the week all the three brothers are available at home?
 - (ii) For a maximum of how many days, only one brother is available at a particular time in a week?

(iii) On which day(s) of the week the youngest and the eldest brothers are available at home at the same time?

Ans.

- **2.** Study the following information carefully to answer the questions that follow.
 - M, N, P, Q, S and T are six members of a group in which there are three female members. Females work in three departments - Accounts, Administration and Personnel and sit in three different floors – 1st, 2nd and 3rd. Persons working in the same department are not on the same floor. On each floor, two persons work.
 - No two ladies, work in the same department or on the same floor. N and S work in the same department but not in personnel. Q works in Administration. S and M are on the 1st and 3rd floors respectively and work in the same department. Q, a lady, does not work on 2nd floor. F, a man, works on the 1st floor.
 - (i) Which groups of persons is a female?
 - (ii) T works in which department?

- (iii) Which pairs of persons work on 2nd floor?
- (iv) If T is transferred to Accounts and S is transferred to Administration, who is to be transferred to Personnel to maintain the original distribution of females on each floor?
- (v) Which pairs of persons works in Administration?

Ans.

3. Study the following information carefully to answer the questions that follow.

Hanif, Horace, Hilary and Hannah are polyglots.

Hanif and Horace speak Chinese, whereas the others speak Arabic.

Horace and Hannah speak Albanian.

Everyone except Hanif speaks Esperanto.

(i) Who only speaks Arabic and Esperanto?

- (ii) Who speaks more than one language but not Arabic?
- Ans.

Q.2. Fill in the blanks:

Directions: Complete the following statements with an appropriate word / term to be filled in the blank space(s).

1. Study the following information carefully and fill in the blanks.

Four players A, B, C and D are holding 4 cards each. Each of them has an Ace, a King a Queen and a Jack. All of them have all the suits (spades, hearts, clubs and diamonds).

I. A has Ace of spades and Queen of diamonds.

II. B has Ace of clubs and King of diamonds.

III. C has Queen of clubs and King of spades.

IV. D has Jack of clubs.

Now, fill in the blanks

(i) Ace of diamonds is with _____

(ii) Jack of hearts is with _____

(iii) Queen of spades is with _____

(iv) C has _____ (v) D has _____

2. Study the information below and answer questions based on it.



The plan above shows an office block for six officers A, B, C, D, E and F. Both B and C occupy offices to the right of the corridor (as one enters the office block) and A occupies an office to the left of the corridor. E and F occupy offices on opposite sides of the corridor but their offices do not face each other. The offices of C and D face each other. E does not have a comer office. F's office is further down the corridor than A's, but on the same side.

A. Now fill the name of officer in following table:



B. Answer the following questions:

- (i) If E sits in his office and faces the corridor, whose office is to his left?
- (ii) Whose office faces A's office?
- (iii) Whose office is in last and leftside?

Ans.

Q.3. Multiple choice questions:

Directions: Read the following questions and choose the answer that best answers the questions.

1.	Six products U, V, W, X, Y and Z are to be placed in display windows of a shop. There are six display windows - numbered 1, 2, 3, 4, 5, 6 and one product is to be put in one window. Moreover, U cannot							
	be immediately to the left or immediately to the tight of V. W must be immediately to the left of X. Z							
(=)	cannot be in window number b.							
(1)		no. 1?						
	(a) U	(b) V	(c) W	(d) X				
(ii)	If X is placed in window no. 3, then W must be placed in which window?							
	(a) 1	(b) 2	(c) 4	(d) 5				
(iii)	If U is placed in window no. 5, then which of the following products must be placed in window no. 6?							
()	(a) V	(b) W	(c) X	(d) Y				
2.	The questions below are to be answered on the basis of the following information:							
	A five member research group he chosen from four Mathematicians A, B, C and D and four Physicists E,							
	F', G and H. At least 3 Mathematicians must be in the group. However,							
	• A refuses to work with D.		• B refuses to w	• B refuses to work with E.				
	• F refuses to work with G.		• D refuses to v	• D refuses to work with F.				
(i)	If B is chosen, who else would have to be in the group?							
.,	(a) F	(b) G	(c) A	(d) C				
(ii)	If B and C are chosen, which of the following is definitely true?							
	1. A is chosen	2. D is chosen	3. Either F or	G is chosen				
	(a) 1 only	(b) 2 only	(c) 3 only	(d) 2 and 3 only				
(iii)	If G is rejected, which other member could not work with the group?							
	(a) A	(b) B	(c) D	(d) F				

(iv) If H is chosen, which of the following must be true?

- 1. A must be chosen
- 2. B must be chosen
- 3. G must be chosen.
- (a) 1 only (b) 2 only (c) 3 only (d) 1, 2 and 3

Q.4. Think without ink:

1. You take seven children to a toy shop to buy each a soft toy. The toy shop only has one of each type so you ask the children their preferences. You decide to give each child one of their preferred toys. Which animal will you give C?

Children	Preference				
Α	Wombat	Panda	Gorilla	Kitten	Rat
В	Panda	Donkey	Dog		
С	Panda	Donkey	Kitten	Dog	
D	Panda	Donkey	Dog		
E	Wombat	Gorilla	Donkey	Kitten	Rat
F	Panda	Dog			
G	Wombat	Gorilla	Dog	Rat	Kitten

Ans.

2. You are holding a children's party for 7 children and have asked the children what activities they would like at the party. Because of time constraints, you will only have time for two activities, but want to make sure that everyone gets either their first or second choice. The, children and activity preferences, in order, are as follows. Which two activities should you choose?

Children	Preferences							
	First	Second	Third	Fourth	Fifth			
Α	Face painting	Magician	Bouncy castle	Ball games	Disco			
В	Bouncy castle	Ball games	Face painting	Magician	Disco			
С	Magician	Face painting	Magician	Disco	Ball games			
D	Ball games	Face painting	Disco	Magician	Bouncy castle			
Ε	Disco	Magician	Face painting	Bouncy castle	Ball games			
F	Magician	Bouncy castle	Disco	Face painting	Ball games			
G	Face painting	Ball games	Bouncy castle	Magician	Disco			

Ans.

- **3.** Five children were administered psychological tests to know their intellectual levels. In the report, psychologists pointed out that the child A is less intelligent than the child B. The child C is less intelligent than the child D. The child B is less intelligent than the child C and child A is more intelligent than the child E. Which child is the most intelligent?
- Ans.
- **4.** Thirty-six vehicles are parked in a parking in a single row. After the first car, there is one scooter. After the second car, there are two scooters. After the third car, there are three scooters and so on. Work out the number of scooters in the second half of the row.
- Ans.