



LGS GROUP OF COLLEGES

A PROJECT OF LAHORE GRAMMAR SCHOOL

Sheet # _____

Name: Rida Fatima Class: 1-year Roll No. _____

Subject: Statistic Test No. WT-5 Date: _____

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	Marks Obtained
1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	16	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	17	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	13	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	18	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	14	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	19	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	15	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	20	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

SECTION-1

(i)

SET:

A set is a well defined collection of distinct objects. The objects making up a set are called elements. A set is usually denoted by a capital letter i.e., A, B, etc. e.g:- $A = \{1, 2, 3, 4, 5\}$ is a set.

(ii)

479001600

3628800

$= 132 \text{ Ans}$

(iii)

Sample space = $S = \{HH, HT, TH, TT\}$

$A = \text{At least one head. } A = \{HH, HT, TH\}$

$$P(A) = \frac{n(A)}{n(S)}$$

$$= \frac{3}{4}$$

$$P(A) = 0.75$$



(iv)

Sample space = $S = \{1, 2, 3, 4, 5, 6\}$

$A = \text{even number} = \{2, 4, 6\}$

$$P(A) = \frac{n(A)}{n(S)} = \frac{3}{6} = \frac{1}{2} = 0.5 = P(A)$$

SECTION-II

Q3. Sample space = $S = \{(1,1), (1,2), (1,3), (1,4), (1,5), (1,6), (2,1), (2,2), (2,3), (2,4), (2,5), (2,6), (3,1), (3,2), (3,3), (3,4), (3,5), (3,6), (4,1), (4,2), (4,3), (4,4), (4,5), (4,6), (5,1), (5,2), (5,3), (5,4), (5,5), (5,6), (6,1), (6,2), (6,3), (6,4), (6,5), (6,6)\}$

ci) $A = \text{sum is 6} = \{(1,5), (2,4), (3,3), (4,2), (5,1)\}$

$$P(A) = \frac{n(A)}{n(S)} = \frac{5}{36}$$

cii) $A = \text{sum is 4 or less} = \{(1,1), (1,2), (1,3), (2,1), (2,2), (3,1)\}$

$$P(A) = \frac{n(A)}{n(S)} = \frac{6}{36}$$

iii) $A = \text{sum is even no.} = \{(1,1), (1,3), (1,5), (2,2), (2,4), (2,6), (3,1), (3,3), (3,5), (4,2), (4,4), (4,6), (5,1), (5,3), (5,5), (6,2), (6,4), (6,6)\}$

$$P(A) = \frac{n(A)}{n(S)} = \frac{18}{36}$$

$$P(A) = \frac{1}{2}$$