MA GROUP

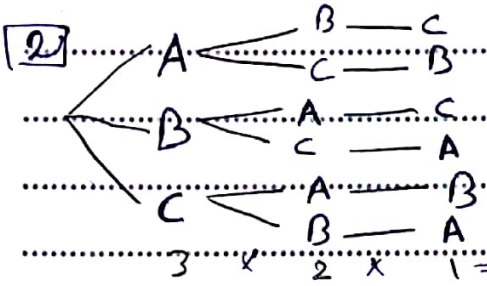
Date :- / /

Subject :-

1- $^{12}C_4 = 495$ & $^{8}C_4 = 70$ & $^{4}C_4 = 1$ & $6! = 6$

$$\frac{495 \times 70 \times 1}{6} = 5775 \text{ ways}$$

2.



A B C
A C B
B A C
B C A
C A B
C B A

= 6 ways

3 × 2 × 1 = 6

3. (i) $P(A) = {}^{4}C_2 \div {}^{12}C_2 = \frac{6}{66} = \frac{1}{11} = 0.091$

4. (i) no defectives = 0.2637

(ii) one defective = 0.4944

(iii) $1 - 0.2637 = 0.7363$

5. $5 \div (10 + 20) = 1 \div 6 = 0.1666$

6. $\frac{91}{216} \approx 42.13\ \%$

8. If $E(X) = K^2 - 8$ then $K = 3$

9. $0.35 + 0.45 = 0.8$