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Page: 1

Answer to the question No 1

Sample Space,

$$x = \{ BBG, BGG, CBG, CGG \}$$

$$-P(x) = \frac{4}{8} = \frac{1}{2}$$

:.
$$P(Y) = \frac{4}{8} = \frac{1}{2}$$

$$P(XY) = P(X) \cdot P(Y)$$

$$=\frac{1}{4}$$

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Date : 01-11-20 Page : 02

Answer to the question No 2

Hene.

$$F = \{(1,1),(1,2),(1,3),(1,4),(1,5),(1,6)\}$$

Criven that summation is 6

:.
$$E = \{(1,5), (2,4), (3,3), (4,2), (5,1)\}$$
We know,

$$P(F) = P(F) \cdot P(F)$$

$$P(FF) = \frac{1}{36}$$

$$P(F) = \frac{6}{36} = \frac{1}{6}$$

$$P(E) = \frac{5}{36}$$

