1

PROBABILITY

EE24BTECH11030 - J.KEDARANANDA

A (Fill In The Blanks)

1) For a biased die the probabilities for the different faces to turn up are given below:

Face	1	2	3	4	5	6
Prob	0.1	0.32	0.21	0.15	0.05	0.17

This die is tossed and you are told that either face 1 or face 2 has turned up. Then the probability that it is face 1 is

(1981 - 2Marks)

2) $P(A \cup B) = P(A \cap B)$ if and only if the relation between P(A) and P(B) is

(1985 - 2Marks)

- 4) If $\frac{1+3p}{3}$, $\frac{1-p}{4}$ and $\frac{1-2p}{2}$ are the probabilities of three mutually exclusive events, then the set of all values of p is (1986 *Marks*)

- 7) Let A and B be 2 events such that P(A)=0.3 and $P(A \cup B)=0.8$. If A and B are independent events then P(B)=..... (1990 2*Marks*)

B (True/False)

1) If the letters of the word "Assassin" are written down at random in a row, the probability that no two S's occur together is 1/35

(1983 - 1Mark)

2) If the probability for A to fail in an examination is 0.2 and that for B is 0.3, then the probability that either A or B fails is 0.5.

(1989 - 1Mark)