

SARDAR PATEL UNIVERSITY**B.Com Examination, Fifth Semester****02 November 2018, Friday****Time: 2:00 P.M. TO 4:00 P.M****Subject/ Course Code: UB05CCOM 11****Subject/ Course Title: Business Statistics-3****Total Marks: 60****Que.1**

- (a) Define Hyper Geometric Distribution and write it's main properties. (6)
- (b) Fifty percent of Mangoes are sweet in a lot. Find the probability that the first sweet Mango will be obtained when the 4th Mango is tested. (4)
- (a) The probability of getting head when a coin is tossed is 0.5. Find the probability that a person will get 5th head at the 10th trial. (5)

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- (a) Define Negative Binomial Distribution and write it's main properties. (6)
- (b) The probability that Kholi can hit a six on any ball is 0.25. Find the probability that he will hit first six on the six ball. (4)
- (c) There are 12 Baleno and 8 swift cars with a company. From them 5 cars are in repair in a workshop. Find the probabilities that of these cars there are (1) 3 Balenos and 2 swifts car (2) all the cars of same type. (5)

Que.2

- (a) Explain: 1.Saddle point 2. Principle of Dominance (6)
- (b) The payoff matrix of two players is given below. Decide the best strategy for both player and also find value of Game. (9)

Player B

$$(1) \text{ Player A} = \begin{bmatrix} -2 & -15 & -2 \\ 7 & 6 & 9 \\ -5 & 0 & 6 \end{bmatrix}$$

Player B

$$(2) \text{ Player A} = \begin{bmatrix} -4 & 6 & 3 \\ -3 & -3 & 4 \\ 2 & -3 & 4 \end{bmatrix}$$

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