

RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College under University of Calcutta)

FIRST YEAR

B.A./B.SC. SECOND SEMESTER (January – June), 2012

Mid-Semester Examination, March 2012

Date : 19/03/2012

ECONOMICS (Honours)

Time : 11 am – 1 pm

Paper : II

Full Marks : 50

[Use separate Answer Books for each group]

Group – A

1. Write short notes on **any two** of the following :- [2×5]
 - a) Features of India as a developing country.
 - b) Knowledge-based economy in India.
 - c) New Agricultural strategy.
 - d) Occupational pattern in India.
2. How would you explain the phenomenon of decreasing return to scale in the context of Indian agriculture? Review the results in the post-green Revolution phase. [10+5]

Or,

What do you mean by 'institutionalization' of rural credit? Review critically the process of institutionalization of rural credit in India in the post-independence period. [5+10]

Group – B

Answer **any five** questions : [5×5]

3. Age : 0-9 10-19 20-29 30-39
No. of persons 10 15 30 20
Draw ogives.
4. The nine digits 1,2,3,.....9 are arranged in random order to form a nine-digit number. Find the probability that 1,2 and 3 appear as neighbours in the order mentioned.
5. Two unbiased dice are thrown. Find the probability of obtaining a total of 8 points.
6. What is classical definition of probability? What are the limitations of this definition.
7. Prove that : $P\left(\bigcup_{i=1}^n A_i\right) \leq \sum_{i=1}^n P(A_i)$
8. Three cards are drawn at random from a full pack of cards. Find the probability that at least one of them is a queen.
9. Does pairwise independence necessarily imply mutual independence? Explain.

