

M.A. Examination, 2018
Rural Management
Semester-II
Paper –I
Subject: Macro Economics for Rural Management

Time: 2 Hours

Full Marks: 40

Group – A

Answer question No. 1 and any three from the rest

1. **Answer the following questions:** 5 x 2 = 10
- (a) What do you mean by Mixed Economy?
 - (b) Poverty is a subject matter of Microeconomics or Macroeconomic- give reason.
 - (c) What is disguised unemployment?
 - (d) Distinguish between social accounting and private accounting.
 - (e) What are the types of unemployment?
2. (a) Describe Circular Flow of Income for Three Sector Closed Economy.
(b) Discuss the different methods of measuring National Income. Mention the difficulties associated with those measurements. 5 +5
3. (a) What do you mean by economic underdevelopment ?
(b) Discuss the major points of economic underdevelopment of India.
(c) Suggest some remedial measures for economic development in India. 2+6 +2
4. (a) What is classical theory of employment?
(b) What are the assumptions lying behind this theory?
(c) How labour market equilibrium is established in a full employment market? 2+4+4
5. (a) Distinguish between absolute poverty and relative poverty.
(b) Discuss why poverty is a social phenomena in India?
(c) Mention three important measurements of poverty done in India. 2 + 2 + 6
6. **Write short notes on any four** 2.5 x 4 = 10
- (a) Role of NABARD in rural financing.
 - (b) Problems of Agricultural marketing in India.
 - (c) Net National Product
 - (d) Poverty line
 - (e) Major occupational structure in India.
 - (f) Why economic development depends largely on Infrastructure development?
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M.A. Examination, 2018
Rural Management
Semester-II
Paper –I Group – B
Subject: Quantitative Technique for Rural Management-II

Time: 2 Hours

Full Marks: 40

Answer Question No. 6 and any *three* from the rest

1. (a) Show that \bar{x} is the arithmetic mean of the quantities $x_1, x_2, x_3, \dots, x_n$ then

$$\sum(x - \bar{x})^2 = \sum x^2 - n\bar{x}^2.$$

(b) The mean savings per month of a federation of 25 SHGs is Rs. 350 and the standard deviation is Rs. 50. Five more SHGs are admitted to the federation and their savings per month are 260, 300, 320, 490 and 590. Find the mean and standard deviation of new federation of 30 SHGs. 5+5=10

2. (a) The mean and standard deviation of a group of 100 observation were found to be 20 and 3 respectively. After the calculation it was found that three observations were incorrect which were recorded as 21, 21 and 18. Find the mean and S.D. if the incorrect observations are omitted.

(b) Find the standard deviation of the following distribution: 5+5=10

| | | | | | | | |
|-----------------|--------|---------|---------|---------|---------|---------|---------|
| Income | 50-100 | 100-150 | 150-200 | 200-250 | 250-300 | 300-350 | 350-400 |
| No. of Families | 5 | 8 | 9 | 12 | 18 | 23 | 17 |

3. Following three blocks out of 19 CD Blocks of Birbhum district have provided 100 days employment opportunity under MGNREGA. Compute which one is the best block in terms of the providing employment. 10

| Month | Jan | Feb | March | April | May | June | July | Aug | Sep | Oct | Nov | Dec |
|-------|-----|-----|-------|-------|-----|------|------|-----|-----|-----|-----|-----|
| B1 | 4 | 3 | 1 | 14 | 17 | 6 | 13 | 5 | 22 | 5 | 6 | 4 |
| B2 | 9 | 7 | 8 | 8 | 6 | 9 | 9 | 8 | 7 | 10 | 9 | 10 |
| B3 | 10 | 8 | 8 | 7 | 9 | 8 | 7 | 7 | 7 | 9 | 10 | 10 |

4. Discuss the advantages of sampling method over census method of collection of statistical data. Explain Simple Random Sampling with and without replacement with suitable example. 5+5=10

5. Draw a random sample of size 10 with replacement from the following frequency distribution and compare the sample mean with the population mean. 5+5=10

| | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|---------|
| Savings | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 |
| SHGs | 14 | 36 | 47 | 66 | 41 | 24 | 10 | 2 |

6. Write Short note on *any two*: 5+5=10

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|-------------------------|--------------------------|
| a) Multi-stage sampling | c) Objective of Sampling |
| b) Systematic sampling | d) Purposive Sampling |