PG Odd Semester (CBCS) Exam., December—2016

STATISTICS

(3rd Semester)

Course No. : STS–304 (C)

(Applied Statistics—I)

Full Marks : 75

Pass Marks : 30

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. *(a)* Define economic development. Explain the working of the physical quality of life index. 3+5=8

(b) What is gross national product? Why is it disadvantageous to use the gross national product as a measure of economic development? 3+4=7

2. *(a)* Explain how social indicators can be utilized as a measure of economic development. 7

(b) Explain the income approach in measuring of national income along with its precautions. 8

UNIT—II

3. *(a)* Explain the standardized death rates, both direct and indirect. 8

(b) What is general fertility rate? What are its disadvantages? Explain the age-specific fertility rate. 2+3+2=7

4. *(a)* What is an abridged life table? Explain different columns of an abridged life table. 2+5=7

(b) Show that

$$L_x \quad \frac{1}{m_x} \quad \frac{1}{q_x} \quad 1 \quad l_x \quad \frac{1}{q_x} \quad \frac{1}{m_x} \quad l_{x\ 1}$$ 8

UNIT—III

5. *(a)* Explain how population projection can be done using the logistic curve. 7

(b) Explain the following : 4+4=8

(i) Theil's measure

(ii) Gini coefficient

6. *(a)* Explain different formulae for measuring poverty. 8

(b) How do you differ between population projection and population estimates? Explain the process of obtaining intercensal and postcensal estimates using the component method. 2+5=7

UNIT—IV

7. *(a)* Explain the role, function and powers of the National Statistical Commission (NSC) of India. 8

(b) Explain briefly the statistical system of our country. 7

8. *(a)* Write a note on the functions of the National Sample Survey Organization. 7

(b) Write a brief note on the Census Operations in India. 8

UNIT—V

9. *(a)* Explain the process of crop forecasting in our country. 8

(b) What is balance of payments? How is it measured in India? 7

10. *(a)* Explain how cost of living is measured in India. How is it related to inflation? 8

(b) Explain the process of collecting industrial production related Statistics in our country. 7

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