THE OPEN UNIVERSITY OF SRI LANKA CERTIFICATE IN ENTREPRENEURSHIP AND SNALL BUSINESS MANAGEMENT PROGRAMME

FINAL EXAMINATION - 2008/2009

MCC - 1103 - BASIC STATISTICS & ECONOMICS

DURATION: TWO (02) HOURS

Date: 14th December, 2008

Time: 10.00 a.m. to 12.00 noon

GENERAL INSTRUCTIONS

- Answer TWO (02) questions from Part "A" and TWO (02) questions from PART "B". 1.
- It is advisable to spend one hour for each part. 2.
- Provide answers for each part separately in separate answer books and hand over them 3. separately.
- Graph papers will be provided. 4.
- Non programmable calculators are allowed. 5.
- All question carry equal marks. 6.

PART A

- What are the fundamental economic problems faced by a country? (i) 01.
 - Explain how a country that has a mixed economic system solve these problems. (ii)
 - What is economic growth? Explain with the help of Production Possibility (iii) Curve?
- What is the law of supply? i. 02.
 - "Change in supply and change in quantity supplied do not mean the same" ii. Do you agree? Explain using illustrations.
 - Using demand and supply analysis explain the out come of the market under each iii. of the following situations.
 - Good x is produced by using more labour, and the wage rate increases. a) What is the market for x?
 - Price of computers declines. What is market for software? b)
 - Government provides a subsidy for paddy farmers. What is the market for c) rice?
 - Price of bread declines. What is market for rice? d)
 - Income of people increases. What is the market for black and white T.V? e)

- 03. In which markets the following firms operate ?Are the firms price takers or price makers Give reasons for your answer.
 - (i) A firm providing insurance service.
 - (ii) A firm manufacturing shoes.
- 04. Write brief notes on the following
 - (i) Barter system and its disadvantages.
 - (ii) Income and substitution effect.
 - (iii) Perfectly competitive market.
 - (iv) Scarcity and opportunity cost.

PART B

- 05. (i) Find the simplest value of $243 \times (27)^{-4/3}$
 - (ii) (a) Evaluate $(5.7)^2$ by considering 5.7 as (5 + 0.7)
 - (b) Evaluate 12 8
 - (iii) Solve the following questions

(a)
$$7x - 5[x - \{7 - 6(x - 3)\}] = 2x + 5$$

(b)
$$3x + 5y = 19$$

 $x + 3y = 9$

(c)
$$15x^2 - 10x = 40$$

- (d) A man moves from A to B at the rate if 4 km an hour. Had he moved at the rate of 3 2/3 km an hour, he would have taken 3 hours more to move from A to B. Find the distance between A and B.
- 06. (i) Explain each of the following briefly.
 - (a) Stratified sampling
 - (b) Cluster sampling
 - (c) Multistage sampling

- (ii) Which of the following is the odd one out?

 Mean, median, mode, range. Explain briefly.
- (iii) The following tables show the scores of two groups of students in a test question.
 - (a) Mark 0 1 2 3 4
 Frequency 10 5 8 x 3
 Determine the value of "x" if the median of these marks is 1.5.
 - (b) Mark 0 1 2 3 4

 Frequency 10 5 8 y 3

 Determine the value of "y" if the mean of these marks is 1.5.
- 07. (i) Explain the following data presentation methods
 - :(a) Pictogrammes
 - (b) Pie-charts
 - (c) Bar charts
 - (ii) Listed below is the number of items purchased by 30customers from a super market.

15	8	6	9	9	4	18	10	10	12
12	7	7	8	12	10	10	11	9	13
5	6	11	14	5	6	6	5	13	5

- (a) Organize the number of items into a frequency distribution.
- (b) Find the mean and the median.
- (c) Find the standard deviation (S.D) of the data.
- (d) Interpret the results.

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