INSTITUTE OF DISTANCE AND OPEN LEARNING

Gauhati University

H O M E A S S I G N M E N T

M. A./M.Sc. Economics

1st Semester, Session- 2013-2014

GUIDELINES FOR SUBMISSION OF HOME ASSIGNMENTS:

1. Write your **NAME, ROLL NUMBER, SESSION, PAPER NUMBER, TOPIC SELECTED** and **EXAMINATION,** clearly on the top of the Front page of each paper.
2. Submit your Assignments **PAPER-WISE** Separately.
3. Each of the two topics given in each paper will be answered as **two essays** of *not more than 500 words each*. There will be negative marking for writing in excess of the word-limit.
4. Each answer (essay) carries a weightage of **10 marks**. (10 marks x 2 essays = 20 marks).
5. Keep a margin of about 1 inch on each side of the page.
6. **Stick File** not necessary.
7. **Copying** from others including **Xerox** from others strictly prohibited.
8. You can submit the essay written in your own hand-writing on **A-4** sized paper on **One Side** of each page **Only**.
9. Submit Your Assignments strictly on or before the due date as notified. Assignments received after the due date may not be considered for evaluation.
10. The last date of submission is ***October 30, 2013***.

N.B. Students are requested to follow the instructions strictly.

Paper I : Microeconomic Theory

1. Discuss different types of price-leadership models of Oligopoly market. 10
2. Explain how a multi-product firm attains equilibrium. 10

Paper II : Macroeconomic Theory-I

1. Discuss the effectiveness of expansionary fiscal policy and expansionary monetary policy under IS-LM framework. 10
2. Critically discuss the permanent income hypothesis forwarded by Friedman. 10

Paper III : Mathematical Methods for Economic Analysis-I

1. Find out the consistent level of sectoral output in dynamic input-output framework given- 10

$$A=\begin{bmatrix}0.2 & 0.1 & 0.2\\ 0.3 & 0.3 & 0.2\\ 0.2 & 0.2 & 0.2\end{bmatrix} \quad B=\begin{bmatrix}0.1 & 0.2 & 0.1\\ 0.2 & 0.1 & 0.2\\ 0.1 & 0.1 & 0.1\end{bmatrix}$$

$$G=\begin{bmatrix}0.02 & 0 & 0\\ 0 & 0.03 & 0\\ 0 & 0 & 0.02\end{bmatrix} \quad F=\begin{bmatrix}200\\ 300\\ 250\end{bmatrix}$$

2. Given the total cost function $C=Q^3-5Q^2+14Q+75$. Write the total variable cost function. Find the derivative of the TVC function and interprete the economic meaning of that derivative. 10

Paper IV : Statistical Methods for Economic Analysis

1. a) What is binomial distribution? What are its various properties? 5
   b) The incidence of occupational disease in an industry is such that the workers have a 20% chance of suffering from it. What is the probability that out of six workers, 4 or more will contact disease? 5
2. Write a comprehensive note on different types of absolute and relative measures of income inequality. 10

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