



M 9625

Reg. No. :

Name :

V Semester B.A. Degree (CCSS-Reg./Supple./Imp.)
Examination, November 2015
UGCCSS B.A. Economics/Dev. Economics
Core Course in Economics/Development Economics
5B07 ECO : BASIC TOOLS FOR ECONOMIC ANALYSIS – I
(2012 Admn. Onwards)

Time : 3 Hours

Max. Weightage : 30

Instruction : Answer may be written either in **English** or in **Malayalam**.

PART – A

Objective Type Questions (in bunches of two) :

I. Choose the correct answer :

- 1) If $A = \{1, 2, 3\}$ and $B = \{1, 2, 3, 4\}$ then set A is a
 - a) Subset of B
 - b) proper subset of B
 - c) superset of B
 - d) power set
 - 2) Want satisfying power of a commodity is known as
 - a) Demand
 - b) Desire
 - c) Utility
 - d) Supply
 - 3) $4x + 3 = 7$ is an example of _____ equations.
 - a) simple linear
 - b) quadratic
 - c) simultaneous
 - d) none of these
 - 4) _____ is a method of collecting data in which information are collected from every individual of the population.
 - a) Sample survey
 - b) Census method
 - c) Both of them
 - d) None of these
- (Weightage : 1)**

P.T.O.



- II. 5) The set of counting numbers are called
- a) natural numbers
 - b) integers
 - c) rational numbers
 - d) real numbers
- 6) _____ is a graphical method of studying the dispersion.
- a) Graph
 - b) Mean
 - c) Lorenz curve
 - d) Gini coefficient
- 7) The point at which the total revenue and the total cost are equal
- a) Production function
 - b) Cost function
 - c) Market equilibrium
 - d) Break-even point
- 8) Growth rate is calculated every year on the value of the preceeding year, instead of the value at the starting year, the growth rate is
- a) Simple
 - b) Compound
 - c) Both of them
 - d) None of these
- (Weightage : 1)**

PART – B

Short Answer questions: Answer **any ten** questions of the following **not** exceeding **50** words **each**. **Each** question carries **1** weightage.

- 9) What are the properties of a good average ?
- 10) Distinguish marginal and conditional probability.
- 11) Explain Complex numbers.
- 12) What is cost function ?
- 13) What is Skewness ?
- 14) Write notes on Histogram.
- 15) Write down all the subsets of the set $A = \{1, 2, 3\}$.
- 16) What are pie-diagrams ?
- 17) Explain Quartile Deviation.



- 18) Explain Lorenze Curve.
- 19) Explain major economic functions.
- 20) Explain Harmonic Mean.

(Weightage : 1×10=10)

PART – C

Short Essay. Answer **any five** questions **not** exceeding **150** words each. **Each** question carries **2** weightage.

- 21) Compute the quartile deviation and inter quartile range for the following values :
7, 85, 25, 60, 5, 10, 74, 12, 16, 10.
- 22) Represent the above data by a simple Bar Diagram.

Country	Birth rate
India	43
Germany	10
U.K.	20
China	52
New Zealand	28
Sweeden	12

- 23) Explain Positive Skewness and Negative Skewness. What are the measure of Skewness ?
- 24) Explain economic functions.
- 25) If $A = \{a, b, c, d, e, f, g, h\}$, $B = \{a, e, i, o, u\}$, $C = \{k, l, m, n, o, p, q, r\}$. Compute the following :
 - 1) $A \cup B$
 - 2) $A \cup C$
 - 3) $B \cup C$
 - 4) $A - B$
 - 5) $A \cap B$
 - 6) $B \cap C$
 - 7) $A \cup (B - C)$
 - 8) Commutative Law.

26. Explain uniform, normal and standard normal PDs.

- 27. Explain different data types. Explain classification of data. (Weightage : 2×5=10)



PART – D

Long Essay : Answer **any two** questions **not** exceeding **450** words each. **Each** question carries **4** weightage.

- 28) Explain the measures of Central Tendency.
- 29) Calculate Standard Deviation of the following two series and state which one is more variable.

Marks	No. of Students	
	Section A	Section B
20 – 30	5	7
30 – 40	10	15
40 – 50	25	30
50 – 60	5	15
60 – 70	5	8

- 30) The daily cost of production for x number of tins is given by $C(x) = \text{Rs. } 2.05x + \text{Rs. } 550$
- If each tin is sold for Rs. 3, determine the minimum number that must be produced and sold daily to ensure no loss.
 - If the selling price is increased by 30 Ps. per piece, what would be the break-even point ?
 - It is known that at least 500 tins can be sold daily, what price the company should charge per tin to guarantee no loss ?

- 31) What is probability ? Explain the meaning, approaches and rules of probability.

(Weightage : $4 \times 2 = 8$)