



ଓଡ଼ିଶା ରାଜ୍ୟ ମୁକ୍ତ ବିଶ୍ୱବିଦ୍ୟାଳୟ, ସମ୍ବଲପୁର, ଓଡ଼ିଶା  
Odisha State Open University, Sambalpur, Odisha  
Established by an Act of Government of Odisha.

# ASSIGNMENTS

Bachelor of Arts(Honours) in Economics

Course Code: BEC-05, BEC-06, BEC-07

(Theory)

Semester – 3

SESSION: 2020-21

Bachelor of Arts(Honours) in Economics

BAEC

Please read the instructions carefully before attempting assignment questions.

## INSTRUCTIONS FOR DOING ASSIGNMENTS

Dear Learner,

You are required to submit your assignment response within the stipulated time in order to become eligible to appear in the term-end examination. The assignments will be evaluated by the counsellors at your Study Centre. Please submit your assignment response to the Coordinator of your Study Center. For a 4 credit course, there is one Assignment and for 6/8 credit course, there must be minimum 02(two) Assignment.

### Purpose of Assignments:

1. Assignments are part of the continuous evaluation process in Open and Distance Learning (ODL) system. Due weightage is given to the marks/grades you obtain in assignments. This will help you for better performance in the term-end examination. If you secure good grades/marks in assignments, your overall performance will improve.
2. Assignments are also a part of the teaching-learning process in the ODL system. Your assignment, after evaluation, will be returned back to you with specific and general comments by the evaluator. This will help you to know your strength as well as your weakness. Thus, it will establish two-way communication between learner and evaluator.

### How to Write Assignments:

Please read the instructions for writing the response of an assignment before you start writing your answer.

1. Write your name, programme code, the course title, enrolment no. and study centre name with code in the top sheet of the assignment answer booklet. the format is given below.

**PROGRAMME TITLE:** \_\_\_\_\_

**ENROLMENT No.:** \_\_\_\_\_ **NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**COURSE CODE:** \_\_\_\_\_ **COURSE TITLE:** \_\_\_\_\_

**ASSIGNMENT CODE:** \_\_\_\_\_ **STUDY CENTRE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_ **SIGNATURE:** \_\_\_\_\_

2. Before attempting the assignments, please go through the course materials carefully, understand the same and write answers in your own language and style.
3. **Write the answers in your own handwriting.** Give sufficient margin in the left side of each page so that the evaluator will give comments on each paragraph/page.
4. Your handwriting should be neat and readable.

### Weightage for each Assignments:

#### For courses without having Practical

1. Each Theory Assignment will carry 25% weightage and term-end examination will carry 75% weightage.
2. Each assignment will be of 100 marks. But it will carry 25% weightage.
3. You have to score minimum pass mark i.e. 40% or P (Pass) Grade in 10-point scale for each assignment. In case you do not submit the assignment or get fail mark in the assignment you have to re-submit in the next year.

**For courses having Practical**

1. Each Theory Assignment will carry 15% weightage and each Practical Assignment will carry 10% weightage and term-end examination will carry 75% weightage.
2. Each assignment will be of 100 marks. But it will carry 25% weightage.
3. You have to score minimum pass mark i.e. 40% in each assignment. In case you do not submit the assignment or get fail mark in the assignment you have to re-submit in the next year.

## SUBMISSION DATES FOR ASSIGNMENTS

### July/January Session

Sl. No.	Course	Name of the Course	Last Date of Submission	No.of Assignments	Day (As per
<b>Theory</b>					
1	BEC -05	Microeconomics -I	<b>28 February, 2021</b>	2	Sunday
2	BEC -06	Macroeconomics-I	<b>28 February, 2021</b>	2	Sunday
3	BEC -07	Statistical Methods for Economics	<b>28 February, 2021</b>	2	Sunday

**NOTE:**

**For 4 Credit Course (one Assignment)**

**Submission dates: 28th February, 2020**

**For 6/8 Credit Course (two Assignment)**

**Submission dates: 1<sup>st</sup> Assignment Submission: 28th February, 2021**

**2<sup>nd</sup> Assignment Submission: 28th February, 2021**

# ASSIGNMENTS - 1

## MICROECONOMICS-I(BEC- 05)

**(Theory)**

**Full Mark – 100**

*(Answer all the questions, which is Compulsory)*

### GROUP- 'A'

**Q. No. 1 Answer within one word or one sentence each**

**Marks: 1 × 10= 10**

- a) What non-satiety assumption implies?
- b) What is the slope of budget line when prices of two commodities remain constant?
- c) What is Price effect?
- d) What do you mean by demand function?
- e) What is APL?
- f) What is Point of inflexion?
- g) What is the value of Marginal product when total product reaches its highest point?
- h) What is production Function??
- i) What do you mean by Isoquant?
- j) Write the equation of Cobb Douglas Production Function?

### Group 'B'

**Q. No 2. Short answer-type Questions (Word Limit: 100 Words)**

**Marks:2 x 10 = 20**

- a) What is marginal rate of technical substitution?
- b) Why Indifference curve is convex to the origin?
- c) Distinguish between Income effect and Substitution effect.
- d) Distinguish between substitute and complements.
- e) Distinguish between exogenous variable and endogenous variable?
- f) When consumer's income decreases, what happen to the demand curve?
- g) When demand is unitary elastic, what does it implies?
- h) What is consumer surplus?
- i) What is constant returns?
- j) What is the shape of Expansion path in case of non- linear homogenous production?.

### Group 'C'

**Q. No 3. Medium answer-type Questions (Word Limit: 200 Words)**

**Marks: 3 X 10 = 40**

- a) What is budget line?
- b) Mention any three properties of Indifference Curve.
- c) How can demand curve is derived from Indifference curve.
- d) What are the factors that affect demand for a good?
- e) What is Income elasticity of demand?
- f) Discuss the relationship between Marginal product and Average product?
- g) What are the limitations of Law of diminishing Returns?
- h) Discuss various types of Isoquants.
- i) Mention any three properties of Isoquants.
- j) What is expansion path?.

**Group 'D'**

**Q. No 4. Long answer-type Questions (Word Limit: 300 Words)                      Marks: 10 X 4 = 40**

- a) **Explain the decomposition of price effect into substitution effect and income effect through Slutsky Cost Difference Approach.**
- b) **Suppose X and Y are two commodities. Prices of two commodities X and Y are given to the consumer. With the given money income, how the consumer attain equilibrium. Explain through Indifference Curve Analysis..**
- c) **Explain the derivation of elasticity of demand through point method..**
- d) **Discuss three stages of Law of Variable proportion.**

**\*\*\*\***

---

**NOTE: (For Group-A, Group-B and Group-C)**

(it can be a single Question or can have two parts with appropriate mark distribution)

## **ASSIGNMENTS-2** **MICROECONOMICS-I(BEC- 05)**

**(Theory)**

**Full Mark – 100**

*(Answer all the questions, which is Compulsory)*

### **GROUP- 'A'**

**Q. No. 1 Very Short answer-type Questions (Word Limit: 50 Words)**

**Marks: 1 × 10= 10**

- a) What do you mean by constant returns to scale?
- b) What do you mean by diseconomies of scale?
- c) What is sunk cost?
- d) Write the long run cost function.
- e) What is supplementary cost?
- f) What is the shape of total variable cost?
- g) What is the nature of the curve under Monopoly?
- h) What do you mean by Mark-up pricing?
- i) What is product differentiation?
- j) What do you mean by derived demand?

### **Group 'B'**

**Q. No 2. Short answer-type Questions (Word Limit: 100 Words)**

**Marks: 2X 10 = 20**

- a) What are the two causes that lead to diminishing returns to scale?
- b) What do you mean by external economies and external diseconomies of scale?
- c) Explain the difference between economic cost and accounting cost.
- d) Explain total fixed cost with the help of a diagram.
- e) Discuss the supply curve of a perfectly competitive industry when not only the size but the number of firms also changes.
- f) How price is determined under simple Monopoly?
- g) Does a monopolist have unique supply curve?
- h) What are the necessary conditions for price discrimination?
- i) Mention any two assumptions of monopolistic competition.
- j) What are the main characteristics of Oligopoly form of market?

### **Group 'C'**

**Q. No 3. Medium answer-type Questions (Word Limit: 200 Words)**

**Marks: 3X 10= 30**

- a) What are the three main factors that result in increasing returns to scale?
- b) Distinguish between real economies of scale and pecuniary economies of scale.
- c) Distinguish between implicit cost and explicit cost.
- d) Distinguish between Average fixed cost and Average variable cost.
- e) Explain the relationship between AC and MC.
- f) Discuss the concept of long period efficiency.
- g) In perfect competition a firm is a "price taker not a price maker". Explain.

- h) What are the prerequisites of perfect competition?
- i) What are the causes of monopoly?
- j) Distinguished between (MPP) Marginal Physical Product and(VMP)Value of Marginal Physical product.

**Group 'D'**

**Q. No 4. Long answer-type Questions (Word Limit: 300 Words)                      Marks: 4 X 10 = 40**

- a) In economics, long run cost curve (LAC) 'envelopes' so many short run average total cost curve (SATC). Explain.
- b) How a perfectly competitive firm earn normal profit? When a firm incurring losses, at which point will it leave the industry even in the short run?
- c) What is Price discrimination? Explain the degrees of price discrimination.
- d) What is monopolistic competition? Explain the long run equilibrium of Monopolistic Competition.

\*\*\*\*

---

**NOTE: (For Group-A, Group-B and Group-C)**

(it can be a single Question or can have two parts with appropriate mark distribution)

# ASSIGNMENTS-1

## MACROECONOMICS-I(BEC- 06)

(Theory)

Full Mark – 100

(Answer all the questions, which is Compulsory)

### GROUP- 'A'

**Q. No. 1 Very Short answer-type Questions (Word Limit: 50 Words)**

**Marks: 1 × 10= 10**

- a) What do you mean by Consumption Expenditure?
- b) What are the items included in final Defence Expenditure?
- c) Define Autonomous Consumption.
- d) What is Marginal propensity to Consume?
- e) What is Demonstration Effect?
- f) What do mean by induced Investment?
- g) What are the factors that affect the housing demand?
- h) What are Inventory Sales ratio?
- i) Investment are divided into how many sub-sectors.
- j) What is Marginal Efficiency of Investment?

### Group 'B'

**Q. No 2. Short answer-type Questions (Word Limit: 100 Words)**

**Marks:2X 10 = 20**

- a) What are the various sources of finance and credit rationing?
- b) What is credit rationing?
- c) What is transitory income?
- d) What is speculative motive?
- e) What is business cycle?
- f) What are anticipated Inventory Investment?
- g) What are inventories?
- h) What is adjustment cost?
- i) What is cost of capital?
- j) What is Net investment?

### Group 'C'

**Q. No 3. Medium answer-type Questions (Word Limit: 200 Words)**

**Marks: 3X 10= 30**

- a. Distinguish between Autonomous and Induced Investment.
- b. What is Business Fixed Investment?
- c. What is Capital Malleability?
- d. Why do firms hold inventory?
- e. Differentiate between Anticipated and unanticipated inventory investment.
- f. Relative income Hypothesis. Discuss
- g. Discuss the two components of Permanent Income Hypothesis.
- h. What are the shortcomings of the Friedman's Permanent Income Hypothesis?
- i. Short-run stabilisation policy of Life Cycle Hypothesis.

**Group 'D'**

**Q. No 4. Long answer-type Questions (Word Limit: 300 Words)**

**Marks: 4 X 10 = 40**

- a) What are the various factors affecting investment function?
- b) Explain the accelerator theory.
- c) Explain the Permanent Income Hypothesis.
- d) Explain Residential Investment.

\*\*\*\*

---

**NOTE: (For Group-A, Group-B and Group-C)**

(it can be a single Question or can have two parts with appropriate mark distribution)

**ASSIGNMENTS-2**  
**MACROECONOMICS-I(BEC- 06)**  
**(Theory)**

**Full Mark – 100**

*(Answer all the questions, which is Compulsory)*

**GROUP- 'A'**

**Q. No. 1 Very Short answer-type Questions (Word Limit: 50 Words)**

**Marks: 1 × 10 = 10**

- a. Define demand for money.
- b. What is income elasticity of demand for money?
- c. Name the book written by J.M. Keynes.
- d. What is monetary policy?
- e. What is Peak in a business cycle?
- f. Give the equation for money market equilibrium.
- g. What happens to LM curve when the money supply is reduced?
- h. Define Gestation Period.
- i. What is Price-rate system?
- j. What is Supply shock inflation?

**Group 'B'**

**Q. No 2. Short answer-type Questions (Word Limit: 100 Words)**

**Marks: 2 × 10 = 20**

- a. What is speculative motive?
- b. What are Commercial banks?
- c. Define AD curve?
- d. State the Sticky Price theory.
- e. What are supply shocks?
- f. How does the AS curve respond to a supply shock.
- g. What does the intersection of IS and Lm curve imply?
- h. Define Deflation.
- i. What is OPEC?
- j. What is Stagflation?

**Group 'C'**

**Q. No 3. Medium answer-type Questions (Word Limit: 200 Words)      Marks: 3 × 10 = 30**

- a. Highlight the dissimilarities of the classical and neo-classical theories of demand for money.
- b. Derive the equation of the LM Curve.
- c. What is Keynesian Aggregate Supply Curve?
- d. What is the Theory Of Misperception?
- e. Illustrate the Phillips Curve.
- f. What is Inflationary Gap?
- g. Distinguish Between Rational and Adaptive expectation model.
- h. What is Suppressed Inflation?
- i. Distinguish between Hyperinflation and Stagflation.

- j. What is Supply-shock inflation

**Group 'D'**

**Q. No 4. Long answer-type Questions (Word Limit: 300 Words)**

**Marks: 4 X 10 = 40**

- a. Derive the AD curve graphically.
- b. Describe the relationship between Inflation and Unemployment through the Phillips Curve.
- c. Describe the Rational Expectation Hypothesis.
- d. Discuss the various phases in business cycle.

\*\*\*\*

---

**NOTE: (For Group-A, Group-B and Group-C)**

(it can be a single Question or can have two parts with appropriate mark distribution)

**ASSIGNMENTS-1**  
**STATISTICAL METHODS FOR ECONOMICS**  
**(BEC- 07)**  
**(Theory)**

**Full Mark – 100**

*(Answer all the questions, which is Compulsory)*

**GROUP- 'A'**

**Q. No. 1 Very Short answer-type Questions (Word Limit: 50 Words)**

**Marks: 1 × 10= 10**

- a) What do you mean by parameter?
- b) What do you mean population?
- c) What do you mean by sample?
- d) What do you mean by Hypothesis?
- e) What is primary data?
- f) What do you mean by open end class?
- g) Define geometric mean.
- h) Define median?
- i) What do you mean by Range?
- j) What do you mean by Variance?
- k) What do you mean by Skewness?

**Group 'B'**

**Q. No 2. Short answer-type Questions (Word Limit: 100 Words)**

**Marks:2X 10 = 20**

- a) Explain the limitations of secondary data.
- b) State the importance of tables in data analysis.
- c) Define discrete frequency distribution.
- d) Define continuous frequency distribution.
- e) What do you mean by Frequency Polygon?
- f) What do you mean by Coefficient of variation?
- g) What do you mean by Concentration Ratio?
- h) What do you mean by Harmonic Mean?
- i) What do you mean by Mean Deviation?
- j) What do you mean by Standard Deviation?

**Group 'C'**

**Q. No 3. Medium answer-type Questions (Word Limit: 200 Words)**

**Marks: 3X 10= 30**

- a) Explain various parts of a Table.
- b) various forms of frequency distributions.
- c) Explain various types of tables.
- d) Draw a line graph using a suitable imaginary data set.
- e) What do you mean by Volume Diagrams?.
- f) What do you mean by Frequency Polygon?
- g) What do you mean by Pictogram?

- h) Explain various methods to approach the respondents with a Questionnaire?
- i) Explain the concept of coefficient of inequality.
- j) What do you mean by Kurtosis?

**Group 'D'**

**Q. No 4. Long answer-type Questions (Word Limit: 300 Words)**

**Marks: 4 X 10 = 40**

a) Find the **Harmonic Mean** of the following distribution

Class	Frequency	Class	Frequency
40-50	19	70-80	72
50-60	25	80-90	51
60-70	36	90-100	43

b) Calculate the mean deviation from mean for the data given in below table:

Marks	0-10	10-20	20-30	30-40	40-50	Total
Number of Students	5	8	15	16	6	50

c) Explain various methods that are used to collect primary data.

d) State the steps involved in the construction of Pie Diagram. Explain its usefulness in presenting economic data.

\*\*\*\*

---

**NOTE: (For Group-A, Group-B and Group-C)**

(it can be a single Question or can have two parts with appropriate mark distribution)

**ASSIGNMENTS-2**  
**STATISTICAL METHODS FOR ECONOMICS**  
**(BEC-07)**  
**(Theory)**

**Full Mark – 100**

*(Answer all the questions, which is Compulsory)*

**GROUP- ‘A’**

**Q. No. 1 Answer within one word or one sentence each Marks: 1 × 10= 10**

- a) What do you mean by “Regression Line”?
- b) What do you mean by Slope?
- c) What do you mean by Y-Intercept?
- d) What do you mean by Base Year?
- e) What do you mean by Price Relative?
- f) What do you mean by Time Series?
- g) What do you mean by Irregular or random movement?
- h) State two different ways in which a trend can be measured?
- i) What do you mean by Sample Space?
- j) What do you mean by a Certain Event?

**Group ‘B’**

**Q. No 2. Short answer-type Questions (Word Limit: 50 Words)**

**Marks:2×10 = 20**

- a) Define Coefficient of Correlation.
- b) Define Null Event.
- c) What do you mean by Mutually Exclusive Event?
- d) What do you mean by Bayes Rule?
- e) What do you mean by Coefficient of Variation?
- f) What do you mean by Mutually Exclusive Events? (Give an appropriate example).
- g) What do you mean by Sample Space?
- h) What do you mean by Index Number?
- i) What do you mean by Cyclical Variation?
- j) What do you mean by Secular Trend?

**Group ‘C’**

**Q. No 3. Medium answer-type Questions (Word Limit: 75 Words) Marks: 3×10 = 30**

- a) Calculate the coefficient of correlation for the following ages of husbands and wives

Wife's age : x	29	28	29	27	29	21	27	22	20	18
----------------	----	----	----	----	----	----	----	----	----	----

Husband's age: y	36	35	33	31	30	29	28	28	27	23
------------------	----	----	----	----	----	----	----	----	----	----

- b) What is conditional Probability?
- c) A box contains 5 red, 4 green, 7 blue and two yellow marble. A marble is chosen at random from the box. After replacing it a second marble is chosen. What is the probability of choosing a red than a Yellow Marble?
- d) ) A box contains 5 red, 4 green, 7 blue and two yellow marble. A marble is chosen at random from the box. Without replacing it a second marble is chosen. What is the probability of choosing a red than a Yellow Marble?
- e) A card is drawn from a deck of 52 playing cards. Find the probability that the card is neither a king nor a queen.
- f) Explain the concept of conditional probability.
- g) Explain the concept of joint probability.
- h) What do you mean by "Secular trend"?
- i) Explain Fisher's index.
- j) Explain Laspeyres' index.

### Group 'D'

**Q. No 4. Long answer-type Questions (Word Limit: 500 Words) Marks:  $10 \times 4 = 40$**

- a) Ten learners got the following percentage of marks in Statistical Method and Micro Economic Analysis

Learners	1	2	3	4	5	6	7	8	9	10
Marks in Statistical Method	78	36	98	25	75	82	90	62	65	39
Marks in Micro Economic Analysis	84	51	91	60	68	62	86	58	53	47

Find out the rank correlation.

- b) Explain the least squares method used in minimising the sum of squares of the error term in regression analysis.
- c) Explain various advantages of sample survey.
- d) Explain the steps involved in the construction of index numbers.

\*\*\*\*

---

**NOTE: (For Group-A, Group-B and Group-C)**

(it can be a single Question or can have two parts with appropriate mark distribution)

