

Home Assignment, 2020

B. A 2nd Semester

Sub:— Economics (HC)

Paper — HC — 2016

F.M — 30

Q:1 Answer the following questions.  $1 \times 5 = 5$

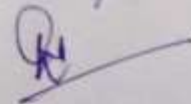
- a) Name one of the Cambridge economists.
- b) Who is known as the father of Modern Macro Economics?
- c) Mention one of the inconveniences of the barter system.
- d) Write down the full form of G.D.P
- e) Mention one of the important functions of money

Q:2 Answer the following questions:—  $2 \times 5 = 10$

- a) What is meant by value of money?
- b) Distinguish between Macro Economics and Micro Economics.
- c) What is meant by Balance of Payment?
- d) What is disposable income?
- e) What is meant by Capital account?

Q:3 Answer the following questions:—  $5 \times 3 = 15$

- a) Discuss in brief the methods of Calculating National Income.
- b) Discuss circular flow of income in two sector economy.
- c) Discuss in brief the Fisher's Quantity theory of money.



Subject :- Economics  
(H.C) - 2026  
Paper :- Mathematical Methods in  
Economics (2.2)

Full Marks — 30

1. Answer the following questions:-

1×4=4

- (a) What is Rank of a Matrix?
- (b) Define Homogeneous function.
- (c) What do you mean by differential equations of 1st order and 1st degree.
- (d) What is trace of a matrix.

2. Answer the following questions:- (Any three)

- (a) Define Identity matrix and Null matrix. 2×3=6
- (b) If  $A = \begin{bmatrix} 1 & 1 \\ 3 & 0 \end{bmatrix}$  and  $B = \begin{bmatrix} 2 & 0 \\ 7 & 1 \end{bmatrix}$ . Find out  $(A+B)$ .
- (c) Write two basic properties of determinants.
- (d) Examine if the following function —  
 $f(x, y) = \frac{(x^2 + y^2)}{(x+y)}$  is homogeneous?
- (e) If  $y = 3x^2 + 1x + 10$ . Find out  $\frac{dy}{dx}$ .
- (f) If  $y = -2x^2 + 8x + 25$ . Calculate  $\frac{dy}{dx}$ .

P.T.O.

③ Answer the following questions :- (Any Two)

5 × 2 = 10

(a) Calculate determinant of the following matrix —

$$A = \begin{vmatrix} 1 & 2 & 3 \\ 4 & 7 & 5 \\ 3 & 6 & 9 \end{vmatrix}_{3 \times 3}$$

(b) Find the inverse of  $A = \begin{bmatrix} 3 & 2 \\ 1 & 0 \end{bmatrix}_{2 \times 2}$

(c) Calculate equilibrium price and equilibrium quantity from the market model —

$$Q_d = a - bP \quad (a, b > 0)$$

$$Q_s = -c + dP \quad (c, d > 0)$$

$$Q_d = Q_s$$

(d) Given,  $TC = 2Q^2 + \frac{1}{2}Q + 25$ . Find out MC!

③ Answer the following questions (Any one) —

(a) Solve the following national income model by using matrix inversion —

10 × 1 = 10

P.T.O.

$$Y = C + 1500 + 1500$$

$$C = 40 + 0.7(Y - T)$$

$$T = 100 + 0.4Y$$

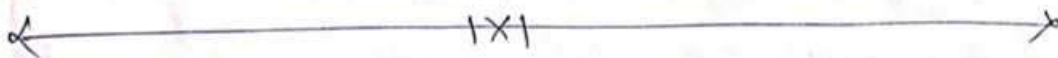
where  $Y$  = national income,  $C$  = consumption,  
 $T$  = Tax Revenue

Or,

(b) Solve the following equation systems by  
using matrix inversion —

$$8x_1 - 7x_2 = 9$$

$$x_1 + x_2 = 3$$



Home Assignment

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B. A. 2<sup>nd</sup> Semester

Subject :- Economics (General)

Paper :- Principles of Microeconomics - II  
(RC-2016)

Full Marks :- 30

① Answer the following questions :-  $1 \times 4 = 4$

(উত্তর প্রদানসমূহের উত্তর দিও)

(a) What do you mean by 'Market'?

'বাজার' বুঝিয়ে কি কুজা?

(b) What is equilibrium?

সাম্যাবস্থা কি?

(c) Write one characteristic of Perfect Competition.

পূর্ণ প্রতিযোগিতামূলক বাজারের এক বৈশিষ্ট্য লিখ।

(d) What is Monopolistic Competition?

প্রকায়িক বাজার কি?

② Answer the following questions :-

$2 \times 3 = 6$

(উত্তর প্রদানসমূহের উত্তর দিও)

(a) Why a firm under perfect competition is "price taker"?

পূর্ণ প্রতিযোগিতামূলক বাজারে প্রতিষ্ঠান দ্বারা মূল্য নেওয়া হয়? কেন?

(P.T.O.)

(b) Why demand curve of Monopoly slopes downward?

একচেতিয়া বজাৰৰ চাহিদা বক্ৰা কিয়  
নিম্নমুখী ?

(c) Draw the supply curve of Monopoly.

একচেতিয়া বজাৰৰ প্ৰাধান বক্ৰা আঁক।

(3) Answer the following questions:—  $5 \times 2 = 10$

(তলৰ প্ৰশ্নসমূহৰ উত্তৰ দিয়া) (মিলহালনা দুটা)

(a) What is Price Discrimination? Explain the First degree Price Discrimination.

"দৰ বিভেদীকৰণ" কি? প্ৰথম  
বিভেদীকৰণ বৰ্ণনা কৰা।

(b) "A firm under Monopoly is price maker"  
— give your remarks.

"একচেতিয়া বজাৰৰ প্ৰতিষ্ঠান দৰ নিৰ্বাহক হয়"  
— মন্তব্য দিয়া।

(c) Demand curve of Monopolistic Competition is more elastic than demand curve of Monopoly Market. — Why?

"একমুখী বজাৰৰ চাহিদা বক্ৰা একচেতিয়া বজাৰৰ  
চাহিদাতকৈ বেছি স্থিতিশীলক" — কিয় ?

④ Answer the following questions:—

উন্নত দিয়া প্রশ্নৰ উত্তৰ লিখা

10x1 = 10

① Explain various features of Monopoly Market.

একচেতিয়া বজাৰৰ বৈশিষ্ট্যসমূহ লিখা।

OR/অথবা

② Make a comparison of Perfect Competition and Monopoly.

পূৰ্ণ প্রতিযোগিতামূলক বজাৰ আৰু একচেতিয়া বজাৰৰ মাজত পাৰ্থক্য দাঙি ধৰা।

←————— 10x1 —————→