Exam Roll No. 08917741617

END TERM EXAMINATION

SECOND SEMESTER [BA(ECO)(HONS.)] APRIL - MAY 2019

Paper Code: BAECO-102

Subject: Principles of Macro Economics

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions including Q no.1 which is compulsory.

All questions carry equal marks.

Q1 Attempt any three of the following:-

(a) Issues in National Income Measurement.

(b) Monetary Transmission Mechanism.

, (c) Role of Central Bank in determination of Interest Rate.

(d) Short note Modern Inflation Theory.

(e) Economic issues related to foreign trade.

Q2 Explain the circular flow of income in a four sector economy.

Discuss the concept of balanced budget multiplier. Illustrate with mathematical derivation.

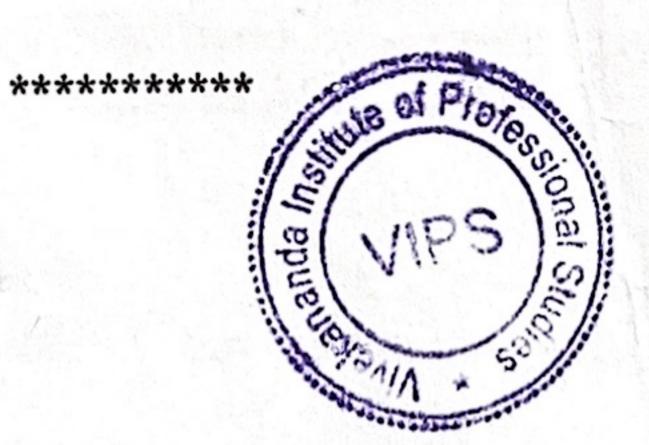
Q4 Examine and discus the statement, "It is impossible to have all three of the following simultaneously: Fixed Foreign Exchange rate, Free Capital Movement and an independent monetary policy".

Discuss the Keynesian Consumption function and its determinants. Discuss the concepts of disposable income and marginal propensity to consume.

Critically examine the statement, "Inflation is always a matter of concern for economic growth." Discuss the role of central banks in managing inflation in an economy.

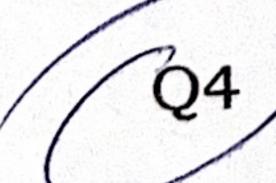
Discuss the determinants of demand and supply of money and the role in determining the equilibrium rate of interest.

Elucidate the different tools of macroeconomic stabilization and growth policies with the government.

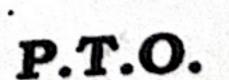


END TERM EXAMINATION

SECOND SEMESTER [BA(ECO)(HONS.)] APRIL - MAY 2019 Paper Code: BAECO-104 Subject: Statistical Method-II Time: 3 Hours Maximum Marks: 75 Note: Attempt any five questions. Use of scientific calculators is allowed. A and B play a game in which they alternately toss a pair of dice. The one who is first to get a total of 7 wins the game. Find the probability that The one who tosses first will win the game. The one who tosses second will win the game. (11)(3)If at least one child in a family with two children is a boy what is (b) the probability that both children are boys. (5)The distribution function of a random variable X is given by $\int cx^3 \quad 0 \le x < 3$ If P(x=3)=0, find (a) the constant c (b) the density function (c) P(x>1)(d) P(1 < x < 2)(e) P(0 < x < 1)(15)(a) Find the probability of (5)(i) 2 or more heads (ii) fewer then 4 heads in a single toss of 6 pair coins. (b) If 3% of the electric bulbs manufactured by a company are defective, find the probability that in a sample of 100 bulbs (5) (i) O bulbs will be defective (c) Find the probability that a student can guess correctly the answers to 12 or more out of 20. (ii) 24 or more out of 40. Questions on a true-false examinations. (5)(a) Find (i) the third and (ii) the fourth moment about the mean of a uniform distribution. (9)



(b) Determine the coefficient of (i) skewness and (ii) kurtosis of a uniform distribution. (6)



Prove that

$$E(s^2) = \frac{n-1}{n}\sigma^2$$

where s^2 is the sample variance for a random sample of size n, and σ^2 is the variance of the population. (15)

Q6 Find the probability that out of the next 200 children born (a) less than 40% will be boys, (b) between 43% and 57% will be girls, (c) more than 54% will be boys. Assume equal probabilities for births of boys and girls.

(a) Use the frequency distribution of heights as below; to find the mean height of the 100 male students at XYZ University

Height (inches)	Fregue
60-62	Frequency 5
63-65	18
66-68	42
69-71	27
72-74	8

200 x 1 x 1 = 2 nx1 200 xx/100

(b) Suppose the data above of the heights of 100 male students at XYZ represents a random sample of the heights of all 1546 male students at the university. Determine unbiased and efficient estimates of (i) the

(a) Five measurements of the reaction time of an individual to certain stimuli was recorded as 0.28, 0.30, 0.27, 0.33, 0.31 seconds. Find (i) 95% and (ii) 99% confidence limits for the actual mean reaction time.(7)

(b) Suppose that n observations, X₁,....X_n, are made from a Poisson distribution with unknowns parameters λ . Find the maximum likelihood estimate of λ . (8)

Write short notes on any two of the following:-

(7.5x2=15)

(a) Types of errors

9

(b) Null and alternative hypothesis

(c) List square estimation.

Write short notes on any two of the following:-

(7.5x2=15)

(a) Systematic Sampling

(b) Method of moments

(c) Central limit theorem

BAECO-104 Polson

END TERM EXAMINATION

SECOND SEMESTER IRAL

Paper Code: BAECO-106 Time: 3 Hours	BA(ECO)(HONS.)] APRIL - MAY 2019 Subject: Math
o mours	Subject: Mathematics of Economics-II
Note: Atte	mpt any five question - Maximum Marks: 75
	mpt any five questions. Maximum Marks: 75
" " " " and marketing	ing costs 'c' are related to the number of items $'x'$ by the
relation $\frac{dc}{dc}$	ig costs 'c' are related to the number of items 'x' by the a , b_1 , d being constants). Find 'c' as a function of 'x' if
$\frac{\partial a}{\partial x} = \frac{\partial a}{\partial y} + \frac{\partial a}{\partial y} - ac $ (8)	1, b ₁ , d being constants). Find 'o' co.
c=0 when $x=0$	if as a function of 'x' if
(b) The change in the cost 'c' of	
0 000 0 00	Ordeman and 1 111
$\frac{1}{dx} + \frac{1}{r} = a$, 'a' being const	and holding as quantity 'x' changes is given by ant. Find 'c' as a function of 'x' if $c=c_0$ at $x=x_0$. (8)
	as a function of 'x' if $c=c_0$ at $x=x_0$. (8)
Q2 / The relationship between	
$dR \rightarrow R^3$ 3	venue R and quantity demanded 'x' is such that
$\frac{dR}{dt} = \frac{2R - x}{2}$. Show that	(i) the materials are
$dx = 3xR^2$. Show that	(i) the relationship between $R & x$ is given by
$R^3 = Kx^2 - x^3$ (ii) K=10 if it is	given that R=0 when $x = 10$ and then $R^3 = 10x^2 - x^3$. (15)
Q3 (a) Explain concept of function	and then $R^3 = 10x^2 - x^3$.(15)
(a) Papiani Concept of function	
(a) write onote note on the tollo	$win \forall r$
(i) Inverse function with exaction (ii) Composite function with	imple.
경우보다면서 경기 사용 경기 가득하다. 그런 사용 전에 가는 사용 보고 있는 것이 되었다면서 하지만 되었는데 이번 사용이 되었다면서 되었다면서 되었다. 그런데 그런데 그런데 모든데 모든데 모든데 모든데 그런데 그런데 그런데 그런데 그런데 그런데 그런데 그런데 그런데 그런	[] [전 : [] [[[[[[[[[[[[[[[[[
Q4 (a) If elasticity of demand curve	- ~ - · · · · · · · · · · · · · · · · ·
1 Cuive	e $q = f(p)$ is given by $q = p^{\alpha}e^{-\beta p + r}$, where α, β, r being $da d^2 a$
an arbitrary constant. Find	
	$dp^2 dp^2$ (8)
(b) Prove that $f(x) = x $ is a co	ntinuous function
	(7)
Q5 (a) If utility function 'u' is a fu	
- January Maria and Maria and Maria	anction x and y given by $u = (x+h)^a (y+k)^b$ where a, b,
h, k being constants. Find	$\frac{\partial u}{\partial u} = \frac{\partial^2 u}{\partial u}$
	$\partial x' \partial y^2$ (8)
$x^3 + y^3$	어느 등 사용하는 이렇게 하면 되었다. 이렇게 이렇게 보고 보고 있는 사람들은 이렇게 되었다. 그는 사람들은 이렇게 되었다. 이렇게 되었다면 사용하는 사람들이 되었다면 사용하는 사람들이 되었다. 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는
(b) If $u = \frac{x^3 + y^3}{x^2 - y^2}$, then show t	that $x = \frac{\partial u}{\partial x} + y = \frac{\partial u}{\partial y} = u$
	$ox oy \qquad (7)$
(a) If an individual preference	scale for two goods
$R x-a \partial R$	scale for two goods x and y is related by the equation ∂R
$R = \frac{x - a}{y - b}. \text{ Then, find } \frac{\partial R}{\partial x},$	$\frac{1}{2}$.
(b) Write short notes on follow:	ing with its application to economics-
(i) Implicit function theorem	n with its application to economics-
(ii) Homogeneous and hom	othetic functions — condra (4)
하는 사람들은 다른 사람들은 사람들이 있다면 보고 있다. 그는 사람들은	
(a) Examine the function $f(x)$	$= x^3 - 3x + 3$, $x \in R$ for maximum and minimum values. (8)
(b) Find the intervals in which	$y = (x+1)^{1/3}$ are concave upward or concave downward. (7)
	are concave upward or concave downward. (7)
Q8 Using Lagrange's method to	optimize the function $z = 2x_1^2 - 3x_2^2 + 18x_2$, subject to $x_1, x_2 > 0$
constrained $2x_1 + x_2 = 8$ and	$z = 2x_1^2 - 3x_2^2 + 18x_2$, subject to
· · · · · · · · · · · · · · · · · · ·	(15)

END TERM EXAMINATION

SECOND SEMESTER [BA(ECO)(HONS.)] APRIL - MAY 2019

Paper Code: BAECO-108

Subject: Business English-II

Time: 3 Hours

Maximum Marks: 75

Note: Attempt all questions as directed. Internal choice is indicated.

Q1 Write short note on the following about 200 words each:

(5x3=15)

(a) Capitalism

OR

Socialism

(b) Uncle Ben's character in Death of a Salesman

OR

Willy's character in Death of a Salesman

(c) Globalisation

OR

'Developmentism' and 'Development'.

Q2 What is your understanding of the economic concepts you read in *The Worldly Philosophers*. (15)

OR

"The human animal ... is distinguished above all by his self-consciousness. Hence every age breeds its philosophers, apologists, critics, and reformers." Critically discuss the statement from the chapter "The Economic Revolution" in *The Worldly Philosophers*.

Q3 Discuss Death of a Salesman as a critique of the 'American Dreams'. (15)

OR

Death of a Salesman makes uppercently points about

Don't you think **Death of a Salesman** makes unnecessary noise about the failure of undeserving people? Discuss.

Q4 Explain the concept of equality as discussed in Amartya Sen's Inequality Reexamined. (15)

OR

Discuss Amartya Sen's idea that society should promote equality in the space of capabilities.

Q5 "The societies which do not keep pace with time, remain stagnant.' Discuss the statement with reference to Tofler's Future Shock. (15)

OR

Describe Tofler' idea of Post-industrialist society.