Exam Roll No. 10 MOINT 21518

#### END TERM EXAMINATION

THIRD SEMESTER [BA.(ECO)HONS) NOVEMBER- DECEMBER 2019

Paper Code: BAECO-201	Subject: Intermediate Micro Economics			
Time: 3 Hours	Maximum Marks:75			

Note: Attempt all questions as directed. Internal choice is indicated. All questions carry equal marks.

- Q1. Answer any five from the following:-
  - (a) Budget Constraint
    - (b) Uncertainity
  - (c) Returns to scale
  - (d) Isocost curve
  - (e) Shephard's lemma
  - (f) Substitution effect
- Q2. Given the utility function  $U(x,y) = x^{\alpha} y^{\beta}$ , Where  $\alpha + \beta = 1$ , solve for the ulititly maximizing values for x and y for any prices (Px, Py) and Income I.
- Q3. (i) Utility function for Hamburgers (y) and soft drinks (x) is given by  $U(x,y)=x^{0.5}y^{0.5}$ . Find out the compensated demand function.

(ii) For the utility function given above, calculate the substitution and income effect.

Q4 Discuss the Revealed preference theory. How is it different from Indiffrence theory?

Q5. (i) Discuss the St. Petersburg Paradox.

- (ii) A person with a current wealth of \$1,00,000 faces the prospect of a 25% chance of loosing his or her \$20,000 automobile due to theft during the next year, Suppose also that this person's Von Neumann-Morgenstern utility index is logarithmic, that is, U (W) ln (W). Find out the maximum premium.
- Q6. Cobb douglas production function for two inputs is given by,  $q_{\overline{\nu}}(k, l) = AK^{\alpha}L^{\beta}$ , where  $0<\alpha<1$  and  $0<\beta<1$ . For this production function-
  - Show that  $f_k>0$ ,  $f_l>0$ ,  $f_{kk}<0$ ,  $f_{ll}<0$  and  $f_{kl}-f_{lk}>0$ .

    Show that the function is quasi concave. Show that the function is concave for  $\alpha+\beta<1$  but not concave for  $\alpha+\beta>1$ .

10

A firms production function is represented by  $q = L^{1/2} + K^{1/2}$ . Assume that the firms buys and sells in perfectly competitive market at prices p, w and v.

(a) Drive the firm's short and long run cost functions.

(b) What would be the impact on the conditional demand for capital for an increase in w?

A mobile manufacturer's cost function is C(x)=4000+300x. Find out the optimum quantity that will maximize the profit.

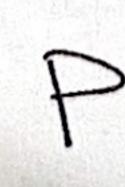
OR

(a) Draw the short run supply curve for a profit maximizing producer.

(b) Suppose demand for labor is given by L=-50W+450 and supply is given by L=100W, where L represents the number of people employed and W is the real wage rate per hour.

(i) What will be the equilibrium level W and L in this market?

(ii) Suppose the government wishes to raise the equilibrium wage to \$ 4 per hour by offering a subsidy to employers for each person hired, how much will this subsidy be? What will the new equilibrium level of employment be? How much total subsidy will be paid?



## END TERM EXAMINATION

THIRD SEMESTER [B.A.(ECO) HONS.] DECEMBER 2019

Paper Code: BAECO203	Subject: Intermediate M	acro Economics-I			
Time: 3 Hours	Max	Maximum Marks: 75			
Note: Attempt all question	ns as directed. Internal choic	e is indicated.			
Q1 Write short notes on (area) (a) Monetary Policy mul	tiplier	(5x3=15)			
(b) Sticky wages (c) Crowding Out	(15)				
. ,	lation rate of unemployment				
L=0.20Y-50i and M=10 (a) Find equation of IS (b) What are the equilibration (c) Calculate new IS expenditure from 50 (d) Calculate new equilibration (d) Calculate new equilibration (equilibration)	curve and LM curve brium levels of output and rate of curve equation when gove	(3) of interest? (3) ernment increases (3) est rates. (3)			
Q3 Discuss effectiveness (a) Liquidity trap (b) Classical case	of Fiscal Policy and Monetary Pol	icy in case of (15)			
rates and real money  Q5 Derive Aggregate Sup	cansionary Monetary Policy on our balances under Classical and Keron OR  pply Curve that captures the effective supply shocks poses a difficy?	eynesian case?(15)			
through wage setting Q7 What is Phillips cur	te of unemployment and real wa g and price setting curves? OR rve? Explain how Friedman prove ownward sloping while long ru	es that short - run			
Q8 Explain Adaptive eximplausibility of this	OR				
Q9 What is NEW Keyn Classical Economic	nesian Economics? How does it o	differ from the NEW (15)			



# END TERM EXAMINATION

THIRD SEMESTER [B.A.ECONOMICS (HONS.)] DECEMBER-2019

- A PARCO OOF	Subject: History of Economic Thought
Paper Code: BAECO-205	Maximum Marks:75
Time: 3 Hours	directed. Internal choice is indicated. All
Note: Attempt all questions us	carry equal marks.
questions	curry equation
	1401-15
Q1 Attempt any three of the fol	lowing:
(a) Effective Demand	
/1 \ / <b>3</b> /	
(b) Marx's theory of value	at 38 -15
J B Say's law of mark	
(d) Wicksell effect	17.7
(e) Multiplier	an in exchange
(f) Value in use and value	ue III excitatige
	wa about economic science.
Q2 /Describe Adam Smith's vie	ws about economic science.  OR
a 11ima the Dice	ardian theory of Income distribution.
UND BEN NOT NOT NOT NOT NOT BENEFIT IN SECURITIES FOR A	
oo with the Morrison Describ	be the important features of Marxism.
Q3 What is Marxism? Describ	OR
Ricorres the labour theory	of surplus value propounded by Karl Marx.
Discuss the labour through	
Critically examine the the	eory of employment of Lird Keynes.
Q4 Circleany	OR
Discuss the liquidity pref	erence theory of interest propounded by Keynes.
Q5 Discuss the contribution	of Walras to the history of economic thought.
	OR
Explain the Fisher's qua	ntity theory of money.
	*****

(Please write your Exam Roll No.)

# END TERM EXAMINATION

THIRD SEMESTER [B.A.(ECO)(HONS.)] NOV.-DEC. 2019 Subject: Introduction to Econometrics

Note: Attempt all questions as directed. Internal choice is indicated. All Paper Code: BAECO207

- Q1
- a) If a qualitative variable has 2 categories & we introduce two dummies in the regression model, the unknown parameters can still be
  - c) A Durbin Watson test statistic close to 0 indicates the presence of the b) Value of  $R^2$  is always greater than  $R^2$ 
    - d) If you choose a higher level of significance, a regression coefficient is
  - (a) Based on your data collection for 13 BA(H) Economics 2nd year students we want to estimate the following population regression Q2:  $y_i = \beta_1 + \beta_2 x_i + u_i$ equation:-

 $y_i$  = travel time for i<sup>th</sup> student from home to college (in hours)

 $x_i$  = Distance from home to college for  $i^{th}$  student in km.

Sample gave the following values:-

Sample gave the following variation 
$$\Sigma y_i^2 = 53$$
,  $\Sigma x_i y_i = 400$   $\Sigma x_i = 195$   $\Sigma y_i = 26$ ,  $\Sigma x_i^2 = 3050$ ,  $\Sigma x_i^2 = 53$ ,  $\Sigma x_i y_i = 400$ 

Establish 95% confidence interval for the predicted mean travelling time when the distance between the college and student's house is 11 k.m. (5)

- (b) What are the consequences of multicollinearity
  - a) Show that the variance of OLS estimator of slope coefficient in  $y_i = \beta_1 + \beta_2 x_i + u_i$  is

$$Var b_2 = \frac{\sigma^2}{\sum (x_i - \bar{x})^2}$$

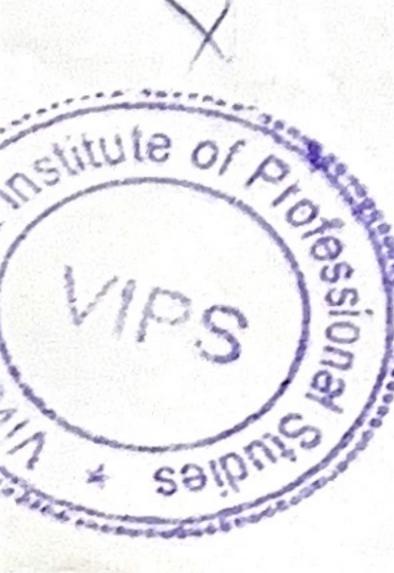
Where  $\sigma^2$  is variance of population error turn.

(5)

b) Consider the following formulations of 2- variable PRF:

Model II: 
$$y_i = \beta_1 + \beta_2 x_i + u_i$$
  
Model II:  $y_i = \alpha_1 + \alpha_2(x_i - x)$ 

- Model II:  $y_i = \alpha_1 + \alpha_2(x_i x) + u_i$ i) Find the estimators of  $\beta_1$  and  $\alpha_1$ . Are they identical. Are their variance identical.
- ii) Find the estimators of  $\beta_2$  and  $\alpha_2$ , Are they identical. Are their variance (10)identical.



[P.T.O.]

(b) Show that  $b_2$  is a linear & unbiased estimators of  $\beta_2$ .

 $\overline{\mathbb{B}}$ The basic framework of multiple regression analysis in the assumptions? Present a brief description of each of one of them. Linear Regression Model) is based on a CLRM (Classical What are these 

S 

B Why heteroskedasticity. explain ıs. heteroskedasticity usually found the method of weighted least squares cross used sectional data? 귤. the presence Briefly of

圆 Complete the table

 $\Xi$ by filling in the missing values.

Total		Due to Residuals	The to regression	D		Source of variation
21000	66043	-	65,965	1	our or squares	Silmof
14	:	-	- 1	freedom	Degrees of Me	
	\		ranco	llares	Mean sum of	

 $\Xi$ significance. Calculate R2 for the model & test the overall goodness of fit at 5% level of 

Q4:

Consider competitive imports based on UK quarterly data for time period 1980 (Q1) to 1996 (Q4) the following regression 1996 (Q4) results g model of demand for

2 M 낁 Ň, = 0.9897 $= -5.5443 + 0.8105 \ln GDP_t - 0.011$ ď 1.8125 31 In Pt + 0.6178 ln Mt-1

Product aggregate imports 事一 log Pt = Relative price index GDP.

Gross Domestic

Comment on the results reported above Apply the durbin's h-test to detect the presence of first order auto correlation. Ø

Based on data on value added in manufacturing & GDP for 28 2010, coefficient are reported in parenthesis the following regression results were reported. below Standard errors of the countries in

Manu = 604 + 0.194 GDPt (533.93) (0.013)

Where Manu = manufacturing, GDF **Gross Domestic Product** 

[P.T.O.]

Heteroskedasticity ß. likely

performed & following results were obtained:ä the data. White's test

**7**2 = 0.5891-62196 + 229.3508 GDP<sub>i</sub> + 0.000537 GDP<sub>i</sub><sup>2</sup>

5% level of significance. R<sup>2</sup> to test if model suffers from heteroskedarticity. Perform the test using (5)

(C) Explain the steps involved in JB (Jarque Bera) test of normality.

S

3

(A) In the regression model

 $\ln y_i =$ β1 + β2 D1 + U1

Dummy regressor, ln

Prove that relative change in Y

×1-E

when the dummy changes from 0 to (eb can be :-

ıs

the base

coefficient. continuously of natural logarithm monitor rate of growth of & b<sub>2</sub> anoney estimator ದ್ಗ slope (7.5)

estimating instantaneous & Economy. In this content What purpose would a linear trend model serve in this context? explain the use of compound rate of semi growth log of money supply growth models in B supply. (7.5) Indian

(A) Means of 2 random samples of size 9 & 7 are 196.42 & 198.82 respectively. The sum of the squares of the deviations from mean are 26.94 & 18.73 respectively. Can the samples be considered to have drawn from the same normal population? (A) Means (10)

(B) Frame the 90% confidence limit for ratio of population vari ance.

Ø

workers where hourly mean of Rs.70 (A) Hourly wages with a of 1000 wages will be:standard deviation workmen are of Rs.5. Estimate normally distributed around the number of B

- ) between 69 & 75
- More than
- Less than 63

<u>ෆ</u> Also estimate the lowest hourly wages of 100 highest paid workers

(2+2+2+4=10)

3

(B) Explain the properties of a good estimator?

### END TERM EXAMINATION

THIRD SEMESTER [B.A.(ECONOMICS)(HONS.)] DECEMBER 2019

Paper Code: BAECO-209

Subject: Functional Hindi-I

Time: 3 Hours

Maximum Marks: 75

Note: Attempt all questions. Internal choice has been indicated.

र्नोट : सभी प्रश्नों के उत्तर दीजिए। आंतरिक चयन दर्शाए गए हैं।

- निम्नलिखित में से किन्हीं चार पर संक्षिप्त टिप्पणियाँ लिखिए। (🛈) (3.75x4=15)
  - भारतेन्दु हरिचंद के व्याख्यान में भारत की उन्नति के प्रमुख बिंदु
  - कवि निराला की विशेषताएँ
  - 'अकाल और उसके बाद' में जीवन की गतिशीलता (ग)
  - ईदगाह में दादी का चरित्र (घ)
  - सिक्का बदल गया कहानी में शाहनी का व्यक्तित्व ्{ड़)
  - 'जिस लाहौर नहीं वेख्सा ओ जम्याइ नइ' में शायर का चरित्र / (司)
    - 'जिस लाहौर नहीं वेख्या ओ जम्याइ नइ' की नाटय माषा (छ)
    - हरिशंकर परसाई के लेखन का महत्व
  - Q2 , 'भारतवर्षोन्नति कैसे हो सकती है' में भारतेन्दु की भविष्य दृष्टि क्या है? पाठ के आधार पर स्पष्ट कीजिये। (15)

अथवा

'फिर उसी नर्मदा मैश की जय' धर्म के पाखण्ड और प्रकृति की विभीषिका का आख्यान है। कैसे?

Q3 'कुकुरमुत्ता' में निराला किस पर व्यंग्य कर रहे हैं और क्यों?

(15)

- ्र 'अकाल और उसके बाद' में नागार्जुन की काव्य कला चरम पर है। कथन की व्याख्या कीजिये।
- Q4 र्ईदगाह' कहानी के आधार पर बताइये कि आप हामिक के स्थान पर होते तो क्या करते?

अथवा

'सिक्का बदल गया' विभाजन की विभीषिका को प्रकट करती है। कहानी के आधार पर इस वाक्य की विवेचना कीजिये।

Q5 'जिस लाहौर नहीं वेख्या वो जन्मया नई' का कौनसा (पात्र आपको सर्वाधिक प्रभावशाली लगता है और क्यों? सोदाहरएा बताइये।

अथवा

'जिस लाहौर नहीं वेख्या वो जन्मया नई' किसी भी प्रकार की कट्टरता का निषेध करता है। स्पष्ट कीजिये।

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