## Goa Vidyaprasarak Mandal's

## Gopal Govind Poy Raiturcar College of

## Commerce and Economics, Ponda Goa.

## M.Com. Semester -III End Examination, October- November 2024 COM 601: Basic Econometrics

Duration: 2 Hours Total Marks: 40

Instructions: 1) This paper consists of six questions carrying equal marks.

- 2) Question No. 1 consists of 5 compulsory questions of 2 marks each.
- 3) Answer any three questions from Q. No. 2,3,4,5 and 6.
- 4) Each question carries 10 marks.

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Q.1. Answer the following.	(Marks) (CO) (BL)							
a) Discuss the Partial Autocorrelation Function (PACF).	(02) (04) (01)							
b) What is a correlation, and how can we interpret the value of a correlation coefficient in a data								
	(02) (01) (01)							
c) Briefly explain ANOVA.	(02) (04) (02)							
d) Consider the following Model:								
$Y_i = \alpha + \beta_1 X_1 + \beta_2 X_2 + \cup_i.$								
Interpret the model with the help of a graph.	(02) (01) (03)							
e) Explain Panel Data with an example.	(02) (03) (01)							
Q.2. Discuss the methodology of econometric analysis.	(10) (01) (01)							
<b>Q.3.</b> Explain the issues in regression analysis.	(10) (02) (01)							

**Q.4.** Apply and show the interaction effect using dummy variables in regression analysis. (10) (03) (01)

**Q.5.A.** What is non-stationarity in time series data? (05) (04) (01)

**B.** What are the detection methods and remedies for non-stationarity (05) (04) (02)

Q.	5.A	١.	What	is a	a miss	pecification	error in	the	econometric	model?
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(05) (04) (01)

 $\boldsymbol{B.}$  What are the consequences and remedies for misspecification in the Econometric model?

(05) (04) (01)