REV-01 MEC/01/05 2023/08

MA ECONOMICS
SECOND SEMESTER [SPECIAL REPEAT]
BASIC ECONOMETRICS
MEC – 204



[USE OMR SHEET FOR OBJECTIVE PART]

Du	ration: 3 hrs.		Full Ma	rks: 70		
Tin		irks: 20				
C	ng: 1x	20=20				
1.	The first time difference of the series $Y_t=Y_{t-1}$	+U	is			
	a. Stationary	b.	Non stationary			
	c. Unit root	d.	Deterministic			
2.	2. The necessary condition for the identification of the model is the					
	a. Order condition	b.	Rank condition			
	c. Both	d.	None			
3.	The lagged distribution models mostly suffer from the problem of					
	a. Autocorrelation	b.	Heteroscedasticity			
	c. Multicollinearity	d.	Simultaneity bias			
4.	In the model, $Y_i = a + bX_1 + U_1$, U_1 is the					
	a. Estimation error	b.	Specification error			
	c. Regression error	d.	None			
5.						
	a. Spurious regression	b.	Autocorrelation			
	c. Heteroscedasticity	d.	Multicollinearity			
6.	6. The sample variance estimate is included in which test?					
	a. Test of fitness	b.	Z test			
	c. t test	d.	Glejser test			
7.	The existence of relationship between the devariable is signified by	epe	ndent variable and the independe	nt		

c. All the variables
 d. Error term
 9. The degrees of freedom is not affected by the inclusion of more

a. Parameters

a. $R^2=0$

c. R2≤1

b. Dummy variables

b. Independent variable

c. Explanatory variables

a. Dependent variable

d. Observations

b. $R^{2}=1$

d. R²≥1

8. The proxy variable in the instrumental variable method is highly related to the

	simultaneous equations is					
	a. 0	b.	1			
	c. a	d.	Indeterminate			
11.	What kind of a model is the Simple Linear Regression Model?					
	a. Univariate		Bi-variate			
	c. Multi-variate	d.	None			
12.	ulticollinearity implies relationship among the					
	a. Regressors		Regressands			
	c. Disturbances		All			
13.	The demand equation $D = a - bP_1 + cP_2 + U$	is				
	a. Exactly identified		Over identified			
	c. Under identified	d.	Cannot be determined			
14.	 Generally, when the calculated value of a test statistic is greater than its tabular value of a test statistic is greater than its tabular value of a test statistic is greater than its tabular value. 					
	a. Accepted	b.	Rejected			
	c. Considered	d.	Altered			
15.	15. Which property is not affected by the errors of measurement in the regressand?					
	a. Unbiasedness		Efficiency			
	c. Autocorrelation	d.	Homoscedasticity			
16.	6. Which of the following cannot be a predetermined variable?					
	a. Exogenous		Endogenous			
	c. Lagged exogenous	d.	Lagged endogenous			
17.	A random variable Y is denoted as Y(t) if it	is				
	a. Continuous	-	Discrete			
	c. Grouped	d.	All			
18.						
	a. Autocorrelation		Multicollinearity			
	c. Heteroscedasticity		None			
19	The trend of a time series is completely pre-	dict	able if it is			
19.	a. Deterministic		Stochastic			
	c. Unit root		Stationary			
20.	Which equations should be identified for the	-				
	a. Structural	b.	Reduced form			

d. None

c. Both

10. The covariance between the dependent variable and the error term in case of the

[2] USTM/COE/R-01

$\left(\underline{\text{Descriptive}}\right)$

Time	2 Hr. 20 Mins	Marks: 50						
	[Answer question no.1 & any four (4) from the rest]							
1. a)	a two variable model.	2+5+3=10						
2. a) b)	200 - 100 -	5+5=10						
	8	4+6=10						
4. a)	avoided.	3+7=10						
Discuss whether the simple linear regression model satisfies the Gauss Markov Theorem.								
6. a)	the first order autoregressive scheme.	2+4+3=10						
7. a)	Discuss the order condition for the identification of a model with a suitable example.	5+5=10						
8. a)	related. Are they stationary?	2+4+4=10						
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