MAHATMA GANDHI UNIVERSITY FIFTH SEMESTER – BA PROGRAMME IN ECONOMICS

Model Question Paper

CORE 7 (EC5B07U)

QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS

(Answers may be written either in English or in Malayalam.)

Time : 3 Hrs

Total Weightage : 25

Part A – Objective Type Questions (in bunches of 4)

Ι.	Choose the correct alphabet only.						
1.	Geographical classification means classification according to						
	(A) Time	(B) Location	(C) Attributes	(D) Class intervals		
2.	Every irrational nur	nber is also					
	(A) Whole numbers(C) Rational numbers	S PTS	[) [)	B) Real numbers D) Natural numb	ers		
3.	Laspeyere's Index f	formula uses the	e weights	of the			
	(A) Base year quant(C) Average of the	tity weights of a nur	(B) Curre mber of y	ent year quantity years (D) Nor	e of the above		
4.	The time series con	sists of o	compone	nts.			
	(A) 5 (B	6) 4	(C) 6	(D) None of these		
					(Weightage 1)		
5.	Lottery method is a	method of drav	ving				
	(A) Quota sampling(B) Judgement sample(C) Random sample(D) None of these						
6.	A square matrix whose elements above and below the diagonal elements are all zero is called						
	(A) zero matrix(B) Triangular matrix(C) Diagonal matrix(D) Scalar matrix						
7.	Laspeyre's index number has						
	(A) maximum bias	(B) no bias	(C) dow	nward bias	(D) upward bias		
8.	Arrangement according to time is known as						
	(A) Alphabetical	(B) Conventio	onal (C) Chronologica	(D) None of these		
					(Weightage 1)		
9.	The point of intersection of demand curve and supply curve is						
	(A) Marginal Revenue(B) Average supply(C) Market equilibrium(D) Marginal cost						

10.	Among the following functions which represents a straight line?							
	$(A) y = 3x^2 + 2x +$	- 5 (B) $y = 4x +$	8 (C)	$x^{2}+y^{2}=16$	(D) :	$x^2 - y^2 = 16$		
11.	Value of a commodity is							
	(A) p+q (B) p×q	(C) p-a	1	(D) No	ne of these		
12.	When the class in lower limit of the	tervals are so fix next class is kno	ted that to wn as	the upper lir	nit of o	ne class is the		
	(A) Exclusive me (C) Frequency dis	ethod stribution		(B) Inclusive method(D) None of these				
						(Weightage 1)		
13.	. The set of all even primes is:							
	(A) Finite set	(B) Infinite s	set	(C) Singlet	on set	(D) Null set		
14.	Consumer price index number is constructed for							
	(A) a well defined(C) all people	d section of peop	ole	(B) worker(D) all the	s only above			
15.	Histogram is suitable for the data presented in							
	(A) continuous se (C) individual ser	eries (B ies (D) discret) All of	te series the above				
16.	The set of all prime numbers x such that $1 < x < 10$ is a							
	(A) Finite set	(B) Null set		(C) Singlet	on set	(D) None		
						(Weightage 1)		

Part B - Short Answer Questions

- *II.* Answer any five out of eight, not exceeding 50 words.
- 17. Distinguish between primary data and secondary data.
- 18. What are the objectives of classification of data?
- 19. Define statistical data. How are they significant in research?
- 20. Distinguish between variable and constant.
- 21. Write a short note on 'Venn diagram'.
- 22. Explain Cartesian product with an example.
- 23. Explain weighted and unweighted index numbers.
- 24. Discuss Family Budget Method.

(Weightage $1 \times 5 = 5$)

Part C - Short Essays

- III. Answer any four questions not exceeding 150 words. Each question carries 2 weightages.
- 25. Write a note on the census and sampling methods of data collection.
- 26. Draw a histogram from the following table:

Class	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	5	20	32	40	20	5

27. What are the major characteristics of real numbers?

- 28. Explain the important functions in economic theory with suitable diagrams.
- 29. Briefly discuss the characteristics of an Index Number.

Items	Quantity	Prices (1996)	<i>Prices</i> (2002)
Bricks	1000	10	16
Timber	700	20	21
Plaster board	1500	5	6
Sand	850	2	3
Cement	100	7	4

30. Calculate the Index Number by aggregative method from the following.

(Weightage $2 \times 4 = 8$)

Part D - Long Essays

- *IV.* Answer any two questions not exceeding 450 words. Each question carries 4 weightages.
- 31. Draw a less than and greater than ogive in the same graph from the following table.

Class	0-9	10-19	20-29	30-39	40-49	50-59
Frequency	2	5	10	8	3	2

32. From the following data compute Fisher's Ideal Index:

Commodity	Curre	ent Year	Base Year		
	Price	Quantity	Price	Quantity	
Α	10	56	6	50	
В	2	120	2	100	
С	6	60	4	60	
D	12	24	10	30	
E	12	36	8	40	

33. Explain the components of a time series.

(Weightage $4 \times 2 = 8$)