Seat No. : ______ ML-105 July-2021 B.Sc., Sem.-I 101 : Statistics (Descriptive Statistics – I) [Max. Marks : 50

Instructions: (1) All Questions in Section I carry equal marks.(2) Attempt any Three questions in Section I.

Time : 2 Hours]

(3) Question – 9 in Section II is Compulsory.

Section – I

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	(B)	Write	e a detail notes on measurement of scales.	7
3.	(A)	Expl	ain in detail different methods of collecting primary data.	7
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		(iii)	Chronological data	
		(ii)	Qualitative data	
		(i)	Numerical data	
	(B)	Defi	ne the terms :	7
		(ii)	Discrete variable and continuous variable	
		(i)	Variable and attribute	
2.	(A)	Defi	7	
	(B)	Write	e difference between primary data and secondary data.	7
1.	(A)	Expl	ain the guiding rules of tabulation.	7

4.	(A)	Describe the different measures of central tendency of a frequency distribution with their merits and demerits.					
			7				
	(B)	Write a note on partition values.	7				
5.	(A)	State all the three properties of arithmetic mean.	7				
	(B)	Prove any two properties of arithmetic mean.	7				
6.	(A)	Explain the importance of graphs in statistics. State the limitations of graphs. 7					
	(B)	Write a note on two dimensional diagrams.	7				
7.	(A)	Describe the methods of drawing a frequency polygon and a frequency curve of					
		frequency distribution with equal class length. 7					
	(B)	Describe the method of drawing a histogram where class lengths of class of the					
		frequency distributions are : (i) equal and (ii) unequal	7				
0			-				
8.	(A)	State types of measures of dispersion and write a short note on quartile deviation. 7					
	(B)	Explain in detail skewness and kurtosis. 7					
		Section – II					
9.	MC	$\Omega_{\rm S}$ (Attempt any Fight)	8				
).							
	(1)	Measure of central tendency is also known as					
		(a) measures of location (b) measures of life					
		(c) measures of linear relation (d) measures of climate					
	(2)	Statistics was formally introduce in Encyclopedia Britannica in					
		(a) 1797 (b) 1897					
		(c) 1697 (d) 1997					

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(3)	A quantity whose value varies from unit to unit of a population or sample i called a			t to unit of a population or sample is		
	(a)	variable	(b)	attribute		
	(c)	quality	(d)	None of the above		
(4)		The name chronological data is derived from the words cromo's means 'time'.				
	(a)	Greek	(b)	Latin		
	(c)	Arabic	(d)	English		
(5)	If a characteristics associated with units of a population or sample is not measurable but can be described then it is called as					
	(a)	variable	(b)	attribute		
	(c)	quality	(d)	None of the above		
(6)	Nominal scales could simply be called					
	(a)	labels	(b)	levels		
	(c)	identity	(d)	None of the above		
(7)		is the example of the ratio scale.				
	(a)	Gender	(b)	Likert scale		
	(c)	Weight of an object	(d)	None of the above		
(8)	8) Multiple bar diagram is used when data is related with			is related with		
	(a)	mutually related matters				
	(b)	exclusive matters				
	(c)	more than one mutually rela	ited m	atters		
	(d)	None of the above				
(9)	A pi	ie diagram is also known as	•			
	(a)	simple divided diagram	(b)	percentage divided diagram		
	(c)	bar diagram	(d)	sector diagram		

(10)	In pie diagram we take the total volume of data equal to				
	(a)	630	(b)	360	
	(c)	36	(d)	60	
(11)	There are types of absolute measures.				
	(a)	3	(b)	4	
	(c)	5	(d)	6	
(12)	First central moment is always				
	(a)	3	(b)	2	
	(c)	1	(d)	0	
(13)	If β_2	$>$ 3 and $\gamma_2 > 0$ then curve is _			
	(a)	Leptokurtic	(b)	Mesokurtic	
	(c)	Platykurtic	(d)	None of the above	
(14)	The sum of deviations of a set of values from their arithmetic mean is				
	(a)	0	(b)	1	
	(c)	2	(d)	None of the above	