

MBD-003-1011018]

## MBD-003-1011018 Seat No. \_\_\_\_\_

## B. Sc. (Sem. I) (CBCS) Examination

November / December - 2016 Statistics - S - 101

(New Course)

Faculty Code: 003

Subject Code: 1011018

Time :  $2\frac{1}{2}$  Hours] [Total Marks: 70 (4) .1A Give the answer of following question 1. Define: Raw data 2. Define: Secondary data 3. Define: Discrete and Continuous variable. 4. Write any two limitations of Statistics. (2) 1B Write any one 1. Write meaning of Statistics. 2. Define: Population inquiry, Sample inquiry (3) 1C Write any one 1. Explain concept of Population and Sample. 2. Explain method of questionnaire by enumerators. (5) 1D Write any one 1. Write the difference between primary and secondary data. 2. State the sources of secondary data. (4) 2A Give the answer of following question 1. Find the mid-value of the class 125-149. 2. If the class of frequency distribution are 25-29.9, 30-34.9, ..., then what is the upper boundary point of the class 25-29.9. 3. The class length of a class is 25 and the mid-value is 52.5, find the upper limit of the class. 4. The students obtaining the marks less than 15 are 12 and students obtaining marks less than 30 are 31. Find the number of students obtaining marks in the class 15-30. (2)2B Write any one 1. Define: Inclusive class 2. Define: Class length (3) 2C Write any one 1. Explain Cumulative frequency 2. On the basis of the study of different branches of company, the following information is obtained. In this company, out of 20 employees working as security persons, 6 are females, out of 30 peons, 10 are females, out of 40 clerks, 25 are females and out of 8 managers, 3 are females. Express this information in a table. (5) 2D Write any one 1. Explain bivariate frequency distribution 2. Out of 300 persons residing in a region, a sample of 30 persons is selected at random and the heights (in cm.) of these selected persons are as under: 163, 148, 151, 162, 145, 152, 149, 158, 153, 149, 150, 152, 145, 141, 162, 168, 148, 158, 149, 141, 146, 155, 159, 150, 161, 153, 162, 160, 154, 165. (i) Distribute these data into 6 classes and also find mid value of each class. (ii) How many persons have height between 145 to 155 cm? (iii) What is the percentage of persons having height less than 155 cm.

1

[Contd...

3A	1. Which	answer of followin	ıl diagra	ms?					1			(4)
	3. Which	many degrees do w h value is obtained ency curves, drawn	by the po	oint ame	of inters graph p	ecti ape	on of ' r?	'less	than" and		ın" cumı	ılative
		the help of Histogra	m whic	h me	easure ce	entra	al of te	nder	ncy find?			(2)
3B	Write an											(2)
		: Histogram. : Bar Diagram										
3C	Write an	•										(3)
30		n : Frequency curve	}									( )
		equency distribution		/ dei	mand of	roo	ms at i	nteri	national ho	tel during	90 days	is as
	under.	Draw less than type	and mo	re t	han type	cui	nulativ	ve fre	equency cu	ırve.	-	
		Demands of	rooms	1-5	50 51-1	00	+	-	151-200	201-250	1	
		Number of	days	10	) 20	)	30	)	18	12	_]	
20	*** *.											(5)
3D	Write an		1		1. :	:: .						(5)
	<ol> <li>Write importance of diagram and graph in statistics.</li> <li>The information regarding the number of boys and girls studying in a university in difference of the studying in the studying i</li></ol>											ant
		ormanon regarding es in a year is given								milversity.	in differ	CIII
	racuriic	Faculty	Scienc		Commer		Arts		gineering	Medical	Law	
		Number of Boys	500		700		200	שונובו	300	100	100	
		Number of Girls	400		600		300		100	100	200	
.4A	Give the	answer of followin		ion								(4)
		n : Supply function	<b>6</b> 1									
	-	n: Cost function										
	3. When j	price of sugar was	Rs. 3.40	, pe	r kg. its	den	nand v	vas 1	200 kg. V	hen price	increas	ed to Rs.
		s demand decreased								or sugar.		
	4. Disting	uish demand and su	apply fu	ncti	on from	the	follow	vings	:			
			(i)n	= 2	20 + 7x	(ii	) n = 1	24 ~	. <del>-</del> x			
4D	(i) $p = 20 + 7x$ (ii) $p = 24 - \frac{2}{3}x$											(2)
4B	Write any one  1. Explain relatively electic demand $(a > 1)$ and relatively inelectic demand $(a < 1)$											(2)
	1. Explain relatively elastic demand $(e > 1)$ and relatively inelastic demand $(e < 1)$ . 2. If the cost function of an item is $C = \frac{x^2}{20} + 10x + 100$ , find marginal cost when 20 units are											
	2. If the c	ost function of an it	tem is C	= 2	$\frac{1}{10} + 10x$	+ :	100, fi	nd n	narginal co	ost when 2	0 units a	are
	produc											
4C	Write any		•		•							(3)
		elasticity of supply	-					£_ 11				
	Z. The del	mand and supply fu	inctions	or a	D = 2			1011	ows:			
					$S = 2p^2$			,				
	Find e	quilibrium price and	d eauilik				υρ , 2	•				
4D	Write any		• • • • • • • • • • • • • • • • • •	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4	٠,٠						(5)
		hat $\eta = \frac{AR}{AR - MR}$										
	2 The cur	AR-MR oply function of a c	ammadi	tre ic	C - ax	2 _	hm _L	a W	/hon m = '	2 5 — 12		
		c = 3, $S = 38$ and v										ne evact
		supply function. A					id tile	COIIS	itanis u, D	and c and	determin	ne exact
					тр	٠.						
5A	Give the	answer of followin	g questi	ion								(4)
		ou enter a text labe			gnment	is						` '
	2. In Micr	osoft Excel, the syr	nbol we	use	to make				rence is			
		g enter key cell mo								**		
		ult there are	workshe	ets	in a wor	kbo	ok.					
5B	Write any one										(2)	
	1. What is	Computer?										

2. What are the difference between hardware and software?

(3

Write require steps to create Line chart in MS-Excel
 What is network topology? State its name.

5D Write any one (5)

Explain function units: ALU, CU and CPU.
 Explain Star network topology.