	BCM School, Basant Avenue, Dugri Road, Ludhiana					
	XI Economics (030)					
	SEPTEMBER ASSIGNMENT					
	Statistics for Economics					
1	State, giving reason, whether the following statements are true or false :					
(i)	Statistics is of no use to Economics without data.	1				
(ii)	Statistics can only deal with quantitative data.	1				
(iii)	Statistics is a study of single fact only.	1				
(iv)	Choices of Assumed Mean does not affect the Actual Mean.	1				
(v)	The value of Median occurs most frequently in a series.	1				
2	Choose the correct alternative :					
(i)	Choose the correct sequence of steps of statistical tools :	1				
	(a) Collection of data, Organisation of data, presentation of data, analysis of data,					
	interpretation of data.					
	(b) Organisation of data, presentation of data, collection of data, interpretation of data,					
	analysis of data.					
	(c) Collection of data, analysis of data, presentation of data, organisation of data,					
	interpretation of data.					
	(d) Collection of data, analysis of data, organisation of data, presentation of data,					
	interpretation of data.					
(ii)	Statistics is applied in	1				
	(a) Economics (b) Business Management (c) Commerce and Industry (d) All of these					
(iii)	The sum of deviations of items from arithmetic mean is always equal to	1				
	(a) one (b) zero (c) infinity (d) None of these					
(iv)	For calculating, no adjustment is required, if frequency is of unequal size or	1				
	magnitude.					
	(a) Mean (b) Median (c) Mode (d) All of these					
(v)	For a skewed distribution, Median=30 and Mean=27.5. What is the value of the Mode?	1				
	(a) 30 (b) 35 (c) 32.5 (d) 27					
3	In the following questions, a statement of assertion followed by a statement of reason is					
	given. Choose the correct answer out of the following choices.					
	(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of					
	Assertion (A).					
	(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of					
	Assertion (A).					
	(c) Assertion (A) is true but Reason (R) is false.					
(1)	(d) Assertion (A) is false but Reason (R) is true.					
(1)	Assertion (A): Statistics is affected by multiple causes.	1				
	Reason (R): Statistics of production of a crop; say rice is affected by rainfall, fertiliser, seeds,					
()	methods of cultivation etc.					
(íi)	Assertion (A): Statistical Results are true only on an average.	1				

	Reason (R): Statistics cannot be misused.									
(iii)	Assertion (A): Ari	 Arithmetic Mean cannot be calculated when open-end classes are there. Arithmetic Mean is a single value which represents the such also series 							1	
	Reason (R): Arithi	netic Mean	is a single	value	whic	h represent	ts the who	le series.		
(iv)	Assertion (A): Mo	ertion (A): Mode can be calculated through diagram. 1								
	Reason (R): Mode	n (R): Mode is an arithmetic average.								
4	State any 2 deme	demerits of Mean. 1							1	
5	Average wage of	e of 50 workers of a factory was ₹200. Each worker is given a raise of ₹20. What 1							1	
	is the new averag	e daily wage	?							
6	Read the given ca	se carefully	and answ	er the	follo	wing questi	ons on the	e basis of th	e same.	
	Median is one of	the measure	es of centr	al ten	dency	/ which can	be graphi	cally presen	ited.	
	Median is a positi	onal averag	e and hen	ce it is	s not i	nfluenced l	by the extr	eme values	. So,	
	median may be m	ore represe	ntative. Si	nce, l	Media	n is a positi	ional avera	age, so it is i	not based	
	upon each and ev	ery item of	the distrib	ution	and c	annot be u	sed for fur	ther algebr	aic	
	treatment like it o	annot be us	ed for det	ermir	ning co	ombined m	edian.			
(i)	Median is graphic	ally present	ed throug	h:						1
	(a) Histogram	(b) Pie l	Diagram		(c)	Ogives	(d) N	lone of thes	e	
(ii)	Identify the value	of Median	of the give	n dat	a:					1
	18, 11, 14, 20, 22	23,12, 19, 2	16.							
	(a) 22	(b)	18			(c) 20		(d) None c	of these	
(iii)	Which of the follo	wing is affe	cted by ex	treme	e valu	es?				1
	(a) Mean	(b)	Median			(c) Mod	е	(d) Both (a) and (b)	
(iv)	Less than Ogive is	ive is always sloping.						1		
	(a) upward	(b) downward (c) horizontal (d) None of these								
7	Discuss the limita	the limitations of Statistics. 3						3		
8	The mean marks	of combined	sections	A and	B are	38				3
	There are 60 and 40 students in sections A and B respectively. If mean marks of students in									
	Section A are 40, find out the mean marks of students in Section B.									
9	From the followir	g data, calc	ulate the a	iverag	ge pro	fit earned b	by a compa	any.		4
		Profit (₹i	n crore)		No. of companies					
		Less th	an 10		10					
		Less th	an 20		30					
		Less than 30			60					
		Less than 40			80					
		Less than 50			90					
		Less than 60			100					
	Or									
	Locate the missing frequency, if the arithmetic mean of the series is 52.									
	Class Interval	10-20	20-30	30	-40	40-50	50-60	60-70	70-80	
	No. of students	5	3	4	4	7	?	6	13	
10	"All Statistics are	numerical st	tatements	of fa	cts bu	t all numeri	ical statem	nents of fact	s are not	4

	Statistics." Justify the statement.								
11	Calculate the value of Mode for the following data by grouping method.								
	Size	0-5	5-10	10-15	15-20	20-25	25-30) 30-35	
	Frequency	1	2	10	4	10	9	2	
	Or								
	From the following distribution, draw 'Less than and More than Ogive' and obtain median								
graphically.									
	Class Intervals 0-10 10-20 20-30 30-40 4					40-50			
	Frequency		5	8	15	1	6	6	

	Micro Economics						
12	Choose the correct alternative :						
(i)	Micro Economics deals with which of the following :						
	(a) Total output of an economy.						
	(b) Measurement of a nation's inflation rate.						
	(c) How producers and consumers interact in individual market?						
	(d) How tax policies influence economic growth?						
(ii)	Which of the following is an example of a positive economy?	1					
	(a) India is taking steps to control rising prices.						
	(b) There are inequalities of income in our economy.						
	(c) India should not be an overpopulated country.						
	(d) Both (a) and (b)						
(iii)	Total Utility is at the point of satiety.	1					
	(a) minimum (b) zero (c) maximum (d) one						
(iv)	According to Gossen's firs law of consumption, while eating pastry, the satisfaction derived						
	from the second pastry consumed is :						
	(a) greater than the consumption of first pastry.						
	(b) not comparable to that from the first pastry.						
	(c) equal to that from the first.						
	(d) less than the consumption of first pastry.						
(v)	If Marginal Rate of Substitution is constant through-out, the Indifference Curve will be:	1					
	(a) parallel to the X-axis.						
	(b) downward sloping concave.						
	(c) downward sloping convex.						
	(d) downward sloping straight line.						
13	In the following questions, a statement of assertion followed by a statement of reason is given.						
	Choose the correct answer out of the following choices.						
	(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of						
	Assertion (A).						
	(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of						

	Assertion (A).						
	(c) Assertion (A) is true but Reason (R) is false.						
	(d) Assertion (A) is false but Reason (R) is true.						
(i)	Assertion (A) : Scarcity is the root cause of all economic problems.						
	Reason (R) : Scarcity and choice	e go hand in hand.					
(ii)	Assertion : Social Welfare is the	e main aim of a centrally planne	ed economy.	1			
	Reason (R) : Profit Maximisatio	n is the main aim of a free eco	nomy.				
(iii)	Assertion (A) : Total Utility is th	e sum of Marginal Utility.		1			
	Reason (R) : Total Utility increses at an increasing rate, when marginal utility falls but remains						
	positive.						
(iv)	Assertion (A) : A consumer atta	ins equilibrium at a point when	re budget line is tangent to	1			
	indifference curve.						
	Reason (R) : At the point of tan	gency, indifference curve is co	nvex to the origin.				
(v)	Assertion (A) : A budget set is t	he collection of all bundles of g	goods that a consumer can afford	1			
	to buy with his given income ar	nd the prices of the goods in th	e market.				
	Reason (R) : In a budget set, the entire income may or may not be spent.						
14	State, giving reason, whether the following statements are true or false :						
(i)	Problem of choice would not a	rise, if resources do not have a	Iternative uses.	1			
(ii)	Normative Economics deals wit	h 'what was'; 'what is' and 'wh	at will be'.	1			
(iii)	PPF is concave to the origin.			1			
(iv)	Marginal Utility can never be n	egative.		1			
(v)	Lower indifference curve repre	sents higher level of satisfactio	n.	1			
15	Analyse the given table and ans	swer the following questions :					
	Combinations	Pineapples	Mangoes				
	A	0	150				
	В	10	140				
	C	20	120				
	D	30	90				
	E	40	50				
	F	50	0				
(i)	Construct a PPC based on the above information.						
(ii)	Indicate the following on the Pl	PC diagram:		1			
	(a) A production point that ens	ures fuller and efficient utilisat	ion of resources and technology.				
	(b) A production point that is u	nattainable.					
(iii)	Mark the point (30,30) on your diagram. What does it represent? 1						
(iv)	Calculate Marginal Rate of Trar	sformation (MRT) of all produ	ction possibilities.	1			
16	Discuss the central problem of	'How to produce'.		1			
17	Explain the law of Diminishing Marginal Utility with a hypothetical schedule only.						
18	Discuss the properties of Indifference Curve.						
10	Can the PPF shift? Explain with diagram. 4						

20	Illustrate the Consumer's Equilibrium state when he consumes a single commodity. Use	4
	diagram to explain the concept.	
	Or	
	A consumer consumes only two goods X and Y whose prices are ₹4 and ₹5 per unit	
	respectively. If the consumer chooses a combination of 2 goods with marginal utility of X=5	
	and Y=4, is the consumer in equilibrium? Give reasons. What will a rational consumer do in this	
	situation? Use Utility Analysis.	
21	How can a consumer strike his equilibrium using Indifference Curve Analysis.	6
	Or	
	(a) Define a budget line. When can it shift to the right?	3
	(b) Explain the concept of MRS (Marginal Rate of Substitution) by giving an example.	3