	2020	<b>2.</b> (	(a)					media	an fr	com	the	
	(6th Semester)			follow	ving	data	:				4+5=9	
		Class										
	COMMERCE	Intervo									0 60–70	
		Freque	ency	: 8		12	10	8	3	2	7	
	Paper : BC-603						Or					
	( Business Statistics )	<ul><li>(b) Calculate Spearman's rank correlation</li><li>coefficient from the following data : 9</li></ul>										
	Full Marks : 70Pass Marks : 45%	X Y			63 53	45 51	36 25	72 79	65 43	47 60	25 33	
	Time : 3 hours	<b>3.</b> (	(a)	Comp	oute	the	con	sumer	pric	e in	dex	
	( PART : B—DESCRIPTIVE )		number of 1970 on the the following data using						; (i) e	<i>(i)</i> aggregate		
	( <i>Marks</i> : 45 )	expenditure method and <i>(ii)</i> family budget method, and give comment : 9										
	The figures in the margin indicate full marks					Price (₹)				Quantity		
	for the questions		Commodity		in 1968 in 1970			ir	in 1968			
			Ric	ce		12		15		20		
1.			Wheat		15			18		30		
	is useful in the decision-making process		Mi	lk		10		12		10		
	of business and management. 2+7=9		Oil	l		30		35		25		

Or

Distinguish between primary and (b) secondary data. Which one would you prefer? Briefly explain how they are collected. 4+1+4=9

# Or

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(2)

(b) What do you mean by index number? Explain the uses and limitations of index number. 3+3+3=9

### 20L**/536a**

(Turn Over)

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(Continued)

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## (3)

**4.** (a) Below are given the figures of production (in thousand quintals) of a sugar factory : Year : 2013 2014 2015 2016 Production (in '000 quintals) 92 83 : 80 90 : 2017 Year 2018 2019 Production (in '000 quintals) : 94 99 92 Fit a straight line trend by the method of least square.

#### Or

- (b) What do you mean by moving average method? Discuss the advantages and disadvantages of moving averages in time series analysis. 3+3+3=9
- (a) What is sampling? Discuss in brief about non-random sampling methods used in sampling. 2+7=9

#### Or

(b) A problem of statistics is given to three students for solution. Their probabilities of solving it are  $\frac{1}{2}$ ,  $\frac{1}{3}$  and  $\frac{1}{4}$  respectively. What is the probability that the problem will be solved?

#### $\star \star \star$

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