Roll No.:		GSCN/W-2019/SEM-I/ BBASFC 1.0
A A A	Shik	sha Mandal, Wardha's
Y	G. S. College of Co	mmerce & Economics, Nagpur
	An A	Autonomous Institution
	(Affiliated to Rashtra	sant Tukadoji Maharaj Nagpur University)
	First Semester Bachelor of Bu	siness Administration Examination (CBCS)
	BUSINESS MATI	HEMATICS AND STATISTICS
		(BBASFC 1.0)
Tiı	me: 3 Hours	Maximum Marks: 80

Note: a) All Questions are compulsory b) Draw well labeled diagrams wherever necessary

Q.1 A) Prepare two way frequency table on the basis of ages of following 30 number of Boys 10 and Girls; with class intervals of 15-20, 20-25 so on.

Age of Boys	Age of Boys	Age of Boys	Age of Girls	Age of Girls	Age of Girls
39	32	28	34	30	28
33	38	37 -	31	28	31
36	20	25	29	19	25
27	25	29	24	22	18
32	37	42	30	34	32
22	45 15	41	20	43	30
38	48 /	23	37	45	17
39	24	35 🔿 🕇	34	18	26
48	25	37 🧲	47 27	20	28
41	26	35	38	24	32
	一世	KE	330	3	
	TY F	A	OR	35	

B) Convert following series into simple continuous series with perfect frequency.

Marks	No. of Students
Less than 10	3
Less than 20	18
Less than 30	26
Less than 40	58
Less than 50	98
Less than 60	139
Less than 70	188
Less than 80	240
Less than 90	260
Less than 100	290

Q.2 A) Calculate median and mode from following data. Marks Above 80 70 60 50 40 30 20 10

MarksAbove80706050403020100No. of Students01430708080100140150

10

1

B) From the following data calculate skewness & co-efficient of skewness.

No. of Tax Payers
2
8
15
1
12
4
6
3
2
Total 53

Qty

Q.3 A) From the following data, find out Index No. by:

2018

16

- a. Laspeyre's Method
- b. Paasche's Method
- c. Bowley's Method
- d. Fisher Method

Commodity

Sugar

10

Price

2019

16

2018

50

Maida		-8 10	15
Oil		6 20	25
		OR	
B) The aver	rage monthly production of	coal is given in tonnes	8.
	Avg monthly	30/2	Avg monthly
Year	production during	Year	production during
	year(tonnes)		year(tonnes)
1991	50.0	1996	38.1
1992	36.5	1997	32.6
1993	43.0	1998	41.7
1994	44.5	1999	41.1
1995	38.9	2000	33.8

2019

20

- a. Calculate 4 yearly moving average.
- b. 4 yearly centered moving average.
- Q.4 A) Find out Simple Interest on amount of ₹ 24,000 & Compound Interest on ₹ 50,000 for 24 months at 9% p.a.

10

OR

B) Rahul purchased a tooth brush at the rate of 30 and sold it to Amit at 10% profit. Amit sold it to customer by taking 10% profit on its cost price. At what rate did customer purchase it?

Q.5	Answer the following questions in about 75-100 words (Any Two):	08
	A) Explain various types of classification.	
	B) Explain objectives of Tabulation.	
	C) What are the functions of statistics?	
Q.6	Answer the following questions in about 75-100 words (Any Two):	08
	A) What are the objectives of Central Tendency?	
	B) What do you mean by Dispersion? What are the methods of measuring dispersion?	
	C) Define Skewness & write its types.	
Q.7	Answer the following questions in about 75-100 words (Any Two):	08
	A) What do you mean by Time Series? Explain its components.	
	B) What are different uses of Index Number?	
	C) Write various types of Index Number.	
Q.8	Answer the following questions in about 75-100 words (Any Two):	08
	A) Define the term Ratio & write its features.	
	B) Define the terms Simple Interest & Compound Interest.	
	C) Explain the concept of cost price, selling price, profit and loss.	
Q.9	Answer the following questions in about 3-4 sentences.	08
-	A) Explain the limitations of Statistics.	
	B) Discuss the formula of Bowley's Coefficient of Skewness.	
	C) Discuss the formula of Paasche's Index No.	
	D) Explain the formula of Simple Interest and Compound Interest.	

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