

Name. _____						<b>Printed Pages:01</b>																
Student Admn. No.: _____																						
<b>School of Basic &amp; Applied Sciences</b> <b>Backlog Examination, June 2023</b> <b>[Programme:] [Semester:] [Batch:]</b>																						
Course Title: Research Methodology And Statistics						<b>Max Marks: 100</b>																
Course Code: BBS09T2411						<b>Time:3 Hrs.</b>																
<b>Instructions:</b>		1. All questions are compulsory. 2. Assume missing data suitably, if any.																				
						K Level	COs	Marks														
<b>SECTION-A (15 Marks) 5 Marks each</b>																						
<b>1.</b>	What is the process of research? Explain							5														
<b>2.</b>	Describe briefly about the objective of research.							5														
<b>3.</b>	What is the motivation of research?							5														
<b>SECTION-B(40 Marks) 10 Marks each</b>																						
<b>4.</b>	Distinguish between primary and secondary methods of data collection.							10														
<b>5.</b>	Write down the Important components relating to research design							10														
<b>6.</b>	What are dependent and independent variables? Explain it with suitable example.							10														
<b>7.</b>	Distinguish between structured and un-structured observation method of data collection. OR Differentiate between advantages and weaknesses of the interview method of data collection							10														
<b>SECTION-C (45 Marks) 15 Marks each</b>																						
<b>8.</b>	Deduce the mean deviation and standard deviation of the following data: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Marks obtained</td> <td style="width: 10%;">0-10</td> <td style="width: 10%;">10-20</td> <td style="width: 10%;">20-30</td> <td style="width: 10%;">30-40</td> <td style="width: 10%;">40-50</td> </tr> <tr> <td>Number of students</td> <td style="text-align: center;">2</td> <td style="text-align: center;">4</td> <td style="text-align: center;">9</td> <td style="text-align: center;">7</td> <td style="text-align: center;">3</td> </tr> </table>						Marks obtained	0-10	10-20	20-30	30-40	40-50	Number of students	2	4	9	7	3		15		
Marks obtained	0-10	10-20	20-30	30-40	40-50																	
Number of students	2	4	9	7	3																	
<b>9.</b>	Deduce the mean, Median and Mode of the following data <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"><math>x_i</math></td> <td style="width: 10%;">10</td> <td style="width: 10%;">20</td> <td style="width: 10%;">30</td> <td style="width: 10%;">40</td> <td style="width: 10%;">50</td> <td style="width: 10%;">60</td> </tr> <tr> <td><math>f_i</math></td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> <td style="text-align: center;">14</td> <td style="text-align: center;">9</td> <td style="text-align: center;">7</td> <td style="text-align: center;">2</td> </tr> </table>						$x_i$	10	20	30	40	50	60	$f_i$	1	3	14	9	7	2		15
$x_i$	10	20	30	40	50	60																
$f_i$	1	3	14	9	7	2																
<b>10</b>	Distinguish between Research methods and research techniques. OR Distinguish between Research methods and research Methodology.							15														