

QP Code: D143632		Total Pages: 2		Name:							
				Register No.							
FOURTH SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2026											
ACCOUNTING AND FINANCE/COMMERCE											
COP4CJ205/ COM4CJ205 BUSINESS STATISTICS											
2024 Admission onwards											
Maximum Time :2 Hours				Maximum Marks :70							
Answers should be written in English											
Section A											
All Questions can be answered. Each Question carries 3 marks											
1	Define statistics. Note down the functions of statistics										
2	What are the various degrees of Correlation										
3	Explain conditional probability										
4	Write down the features of Normal curve										
5	Differentiate the terms descriptive statistics and inferential statistics										
6	Find out the number of ways in which a cricket team consisting of 11 players can be selected from 14 players										
7	A bag contains 4 white, 2 black, 3 yellow and 3 red balls. What is the probability of getting a white or red ball at random in a single draw of one?										
8	What do you mean by Hypothesis?										
9	How many four-digit numbers can be formed with digits 3, 4, 5, 6, 7, repetitions being not allowed										
10	Write a note on Venn Diagram										
(Ceiling: 24 Marks)											
Section B											
All Questions can be answered. Each Question carries 6 marks											
11	Explain the Features of statistics										
12	The ranking of 10 students in 10 students in two subjects A and B are as follows. Find Rank correlation coefficient										
	A	3	5	8	4	7	10	2	1	6	9
	B	6	4	9	8	1	2	3	10	5	7
13	Find the number of ways in which 6 boys and 4 girls may be arranged in a row if no two of the girls are to be together										

14	The probability that a student Mr. passes mathematics is $\frac{2}{3}$. The probability that he passes statistics is $\frac{4}{9}$. If the probability of passing atleast one subject is $\frac{4}{5}$, what is the probability that Mr. X will pass both the subjects?																										
15	What do you mean by Standard normal curve?																										
16	Differentiate between bivariate and multivariate analysis.																										
17	The mean height of the soldiers is 68.22 inches with a variance of 10.8. How many soldiers in a regiment of 1000 would you expect to be over 72 inches																										
18	From the following data form regression equation of X on Y <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>X</td> <td>36</td> <td>23</td> <td>27</td> <td>28</td> <td>28</td> <td>29</td> <td>30</td> <td>31</td> <td>33</td> <td>35</td> </tr> <tr> <td>Y</td> <td>29</td> <td>18</td> <td>20</td> <td>22</td> <td>27</td> <td>21</td> <td>29</td> <td>27</td> <td>29</td> <td>28</td> </tr> </table> <p style="text-align: right;">(Ceiling: 36 Marks)</p>	X	36	23	27	28	28	29	30	31	33	35	Y	29	18	20	22	27	21	29	27	29	28				
X	36	23	27	28	28	29	30	31	33	35																	
Y	29	18	20	22	27	21	29	27	29	28																	
Section C																											
Answer any ONE, carries 10 marks																											
19	The screws produced by certain machines were checked by examining samples. The following table shows the distribution of 128 samples according to the number of defective items they contained. Fit a Binomial distribution <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>No. of Defectives</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> </tr> <tr> <td>No. of Samples</td> <td>7</td> <td>6</td> <td>19</td> <td>35</td> <td>30</td> <td>23</td> <td>7</td> <td>1</td> </tr> </table>	No. of Defectives	0	1	2	3	4	5	6	7	No. of Samples	7	6	19	35	30	23	7	1								
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No. of Samples	7	6	19	35	30	23	7	1																			
20	Calculate Karl Pearsons coefficient of correlation from the following data <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>X</td> <td>43</td> <td>44</td> <td>46</td> <td>40</td> <td>44</td> <td>42</td> <td>45</td> <td>42</td> <td>38</td> <td>40</td> <td>42</td> <td>57</td> </tr> <tr> <td>Y</td> <td>29</td> <td>31</td> <td>19</td> <td>18</td> <td>19</td> <td>27</td> <td>27</td> <td>29</td> <td>41</td> <td>30</td> <td>26</td> <td>10</td> </tr> </table> <p style="text-align: right;">(1x10=10 Marks)</p>	X	43	44	46	40	44	42	45	42	38	40	42	57	Y	29	31	19	18	19	27	27	29	41	30	26	10
X	43	44	46	40	44	42	45	42	38	40	42	57															
Y	29	31	19	18	19	27	27	29	41	30	26	10															