

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

BBA-III Semester

COURSE CODE (CREDITS): 23BB1HS311 (4)

MAX. MARKS: 15

COURSE NAME: STATISTICS FOR BUSINESS DECISIONS

COURSE INSTRUCTORS: ASA

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

for solving problems

Q.No	Question	CO	Marks																				
Q1	Short answer (max 100 words) a) What is the difference between descriptive statistics and inferential statistics? b) What is the difference between population and sample in statistical analysis? c) What is the purpose of using a histogram in statistics?	1	1x3=3																				
Q2	In 2024, a college had a total of 1,800 students. Out of these 1,200 were for Graduation and the rest for Post-Graduation.(P.G.). Out of the 1,200 Graduate students 180 were girls. However, in all there were 520 girls in the college. In 1997, the number of Graduate students increased to 1,500, out of which 300 were girls, but the number of P.G. students fell to 400, of which only 120 were boys. In 2002, out of 900 girls, 700 were for Graduation, whereas the total number of graduates was 1,800. The number of boys and girls in P.G. classes was equal. a) Represent the above information in a tabular form (show boys, girls and totals for Graduation and P.G. for each year). b) Calculate the percentage increase in the number of Graduate students in 2002 as compared to 2024.	4	2+2=4																				
Q3.	Compute the mean and median of the following data: <table><tr><td>Mid Value</td><td>115</td><td>125</td><td>135</td><td>145</td><td>155</td><td>165</td><td>175</td><td>185</td><td>195</td></tr><tr><td>Frequency</td><td>6</td><td>25</td><td>48</td><td>72</td><td>116</td><td>60</td><td>38</td><td>22</td><td>3</td></tr></table>	Mid Value	115	125	135	145	155	165	175	185	195	Frequency	6	25	48	72	116	60	38	22	3	1	2+2=4
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Q4.	A retail firm recorded its annual sales growth rates for five consecutive years as follows: 8%, 12%, 5%, 15% and 10%. Compute the arithmetic, geometric and harmonic mean for the return.	1	2+2=4																				