JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

MBA -I Semester

COURSE CODE (CREDITS): 26MB1JB118 (2) MAX. MARKS: 15

COURSE NAME: BUSINESS STATISTICS USING EXCEL SPREADSHEET

COURSE INSTRUCTOR: 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
(c) Use of calculator is ALLOWED.

SAMPLE PAPER

Q1 (CO: 3, Marks: 2x3 = 6)

The following data relates to the Department and Shift of 24 employees working in a company:

Emp ID	Deptt	Shift	Emp ID	Deptt	Shift
E1	Sales	Day	E13	Finance	Day
E2	HR	Night	E14	Sales	Night
E3	IT	Day	E15	IT	Night
E4	Finance	Night	E16	Sales	Day
E5	Sales	Night	E17	HR	Day
E6	Sales	Day	E18	Finance	Night
E7	HR	Day	E19	IT	Day
E8	IT	Night	E20	Sales	Night
E9	Finance	Day	E21	HR	Night
E10	Sales	Day	E22	Finance	Day
E11	IT	Day	E23	Sales	Day
E12	HR	Night	E24	IT	Night

a) Classify and tabulate the above data into a two-way frequency table showing the number of employees Department-wise and Shift-wise (Day/Night), with row and column totals.

b) From the two-way table prepared in part (a), identify the department with the highest total number of employees.

c) Calculate the percentage of employees in the Sales department who work in the Night shift.

Q2 (CO: 3, Marks: 1x3 = 3)

The monthly revenue (in ₹ Lakh) earned by a company during the years 2024 and 2025 is given below:

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2024 (₹ Lakh)	40	42	45	41	47	50	48	53	55	58	60	65
2025 (₹ Lakh)	45	48	50	47	52	55	53	58	60	63	66	70

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<table>
<tr><td></td><td>a) Draw a line graph showing the month-wise revenue trends for 2024 and 2025 on the same graph, using two clearly distinguished lines with a legend.
b) From the graph, identify the month in which the highest revenue was recorded in each year.
c) Calculate the percentage change in total annual revenue from 2024 to 2025.</td><td></td><td></td></tr>
<tr><td>Q3</td><td>The quarter-wise sales (in ₹ Lakh) of three product lines of a company during the year are given below:

<table><tr><th>Product Line</th><th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th></tr><tr><td>Product A</td><td>120</td><td>135</td><td>140</td><td>150</td></tr><tr><td>Product B</td><td>90</td><td>100</td><td>95</td><td>110</td></tr><tr><td>Product C</td><td>60</td><td>65</td><td>70</td><td>75</td></tr></table>
Draw a multiple bar chart to represent the quarter-wise sales of the three product lines.</td><td>2</td><td>2</td></tr>
<tr><td>Q4</td><td>Write short notes (max 50 words)
a) Primary Vs Secondary Data
b) Quantitative Vs Qualitative Data
c) Pie Chart
d) Skewness</td><td>1</td><td>1x4 = 4</td></tr>
</table>

JUIT TEST - 1 EXAMINATION - AUG-2025