

Faculty of Management Studies

End Semester Examination May 2025

MS5OE21 Spreadsheet Modelling

Programme	:	MBA	Branch/Specialisation	:	-
Duration	:	3 hours	Maximum Marks	:	60

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary.
 Notations and symbols have their usual meaning.

Section 1 (Answer all question(s))

Q1.	Section 1 (Answer all question(s))			Marks CO BL
	1	1	2	
Q1. Which of the following is not a characteristic of spreadsheet modeling?	<input type="radio"/> Allows data visualization	<input type="radio"/> Provides a structured decision-making approach	<input type="radio"/> Eliminates all manual data input	<input type="radio"/> Uses formulas and functions to analyze data
Q2. Which excel function is best used for applying conditional formatting based on a specific criterion?	<input checked="" type="radio"/> IF	<input type="radio"/> SUM	<input type="radio"/> COUNT	<input type="radio"/> FILTER
Q3. Which of the following functions is used to multiply two matrices in excel?	<input type="radio"/> MINVERSE	<input type="radio"/> TRANSPOSE	<input checked="" type="radio"/> MMULT	<input type="radio"/> INDEX
Q4. What is the primary purpose of data cleaning in spreadsheet applications?	<input type="radio"/> To increase the file size	<input checked="" type="radio"/> To remove duplicates and inconsistencies	<input type="radio"/> To add more data randomly	<input type="radio"/> To create visual charts
Q5. Which excel feature allows users to quickly copy formatting from one cell to another?	<input checked="" type="radio"/> Format painter	<input type="radio"/> Conditional formatting	<input type="radio"/> Data validation	<input type="radio"/> AutoFill
Q6. Which type of chart is most effective for showing trends over time?	<input type="radio"/> Pie Chart	<input type="radio"/> Bar Chart	<input checked="" type="radio"/> Line Chart	<input type="radio"/> Scatter Plot
Q7. Which of the following functions is not typically used for automating data retrieval in excel?	<input type="radio"/> VLOOKUP	<input type="radio"/> HLOOKUP	<input checked="" type="radio"/> XLOOKUP	<input type="radio"/> CONCATENATE
Q8. Which excel feature allows users to record and run repetitive tasks automatically?	<input type="radio"/> SOLVER	<input checked="" type="radio"/> MACROS	<input type="radio"/> PIVOT TABLE	<input type="radio"/> DATA VALIDATION
Q9. Which statistical distribution is most commonly used in data science for modeling natural phenomena?	<input type="radio"/> Binomial distribution	<input type="radio"/> Poisson distribution	<input checked="" type="radio"/> Normal distribution	<input type="radio"/> Uniform distribution
Q10. Which excel tool is used for performing regression analysis?	<input type="radio"/> Solver	<input checked="" type="radio"/> Data Analysis ToolPak	<input type="radio"/> VLOOKUP	<input type="radio"/> CONCATENATE

Section 2 (Answer all question(s))**Marks CO BL****Q11.** Define spreadsheet modelling and explain its characteristics.

4 1 1

Rubric	Marks
Definition - 1 marks three characteristics 3 marks	4

Q12. (a) What are the benefits of using spreadsheet models in decision-making?

6 1 2

Rubric	Marks
6 benefit (1 mark each)	6

(OR)**(b)** Explain different categories of decision models with examples.

Rubric	Marks
3 decision model and 1 marks for each decision model and 1marks each for example	6

Section 3 (Answer all question(s))**Marks CO BL****Q13.** Explain the concept of arrays and their significance in excel.

4 2 2

Rubric	Marks
concept of array explanation 1m and 3 Significance 3m	4

Q14. (a) Differentiate between quantitative and qualitative data.

6 2 1

Rubric	Marks
six difference	6

(OR)**(b)** How does sorting and filtering assist in data management? Explain with an example.

Rubric	Marks
Sorting Explanation 1m Sorting Example 2m Filter explaination 1 m Filter Example 2m	6

Section 4 (Answer any 2 question(s))**Marks CO BL****Q15.** Illustrate data visualization. Why is it important in decision-making?

5 3 3

Rubric	Marks
Data Visualization Explaination 2m and decision-making important 3m	5

Q16. Explain the key features of visualization in MS Excel.

5 3 1

Rubric	Marks
5 key feature	5

Q17. Design dashboards in excel. Explain their benefits.

5 3 6

Rubric	Marks
explanation 1m benefit. 2m Example: 2m	5

Section 5 (Answer all question(s))**Marks CO BL**

Q18. Explain how pivots can be used to automate data analysis.

4 4 2

Rubric	Marks
1 MARKS FOR EACH POINT	4

Q19. (a) How does the INDEX and MATCH function work? Provide an example.

6 4 3

Rubric	Marks
INDEX and MATCH function explanation 2m formula 2m Example 2m	6

(OR)

(b) Explain the differences between VLOOKUP, HLOOKUP, and LOOKUP functions.

Rubric	Marks
vlookup explanation with example 2m hlookup explanation with example 2 m lookup explanation with example 2m	6

Section 6 (Answer any 2 question(s))

Marks CO BL

Q20. How can excel be used for predictive analytics.

5 5 4

Rubric	Marks
5 uses	5

Q21. Explain the significance of regression models in excel.

5 5 2

Rubric	Marks
explain regression model 2m 3 significance 3m	5

Q22. What are random variables? Provide examples.

5 5 2

Rubric	Marks
def 2 m example 3 m	5
