

ADMISSION NUMBER

School of Business

Integrated Bachelor of Business Administration - Master of Business Administration Semester End Examination - Nov 2023

Duration: 180 Minutes

Max Marks: 100

Sem IX - MBBA6007 - Decision Modelling with Spreadsheets

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Define what simulation is in the context of modeling and analysis.	K1 (2)
2)	Describe the importance of model verification and validation in simulation to ensure the accuracy and reliability of the results.	K2 (4)
3)	Can you explain the concept of agent-based modeling and why it's important to understand its use cases?	K2 (6)
4)	How can decision analysis with spreadsheets be used in workforce planning and resource allocation to meet business demands effectively?	K3 (9)
5)	Apply queuing models to optimize the checkout process in a supermarket to reduce customer waiting times.	K3 (9)
6)	Discuss the ethical considerations involved in decision analysis with spreadsheets, particularly in scenarios with potential social or environmental impacts.	K5 (10)
7)	Discuss the advantages and disadvantages of using decision modeling software specifically designed for complex scenarios compared to spreadsheets.	K4 (12)
8)	Discuss the role of decision analysis with spreadsheets in financial risk management and its contribution to overall business resilience.	K5 (15)
9)	How can you evaluate the success of optimizing call center operations using queuing analysis?	K5 (15)
10)	Create a queuing model to analyze and optimize the patient flow in a healthcare clinic, ensuring timely appointments and reduced waiting times.	K6 (18)