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BSM-016

**BACHELOR OF BUSINESS
ADMINISTRATION (SERVICES
MANAGEMENT) [BBA(SM)]**

Term-End Examination

June, 2023

BSM-016 : MANAGING SERVICE OPERATIONS–II

Time : 2 Hours

Maximum Marks : 50

Note : *All questions are compulsory.*

1. Answer all the questions. Each question carries
1 mark. 1×10=10

Fill in the blanks :

- (a) A queuing system consists of two key elements, _____ and server.
- (b) _____ can be defined as the maximum ability of a system to deliver service over a period of time.

P. T. O.

- (c) A _____ is a computer program designed to imitate the real-world system or processes using a model.
- (d) The physical size of a product is an important criterion for the _____ analysis and design.
- (e) Random variables can be of two types—either discrete or _____.

State whether the following statements are True or False :

- (f) The customer can be considered a potential resource that participates in a service process.
- (g) M/M/1 queuing model refer to a double-server queuing model.
- (h) Computer-based simulations actually use pseudo-random numbers.
- (i) For a discrete and continuous random variable the cumulative distribution always sums to 1.
- (j) A dynamic system is one that is influenced by actions over time.

2. Answer any *five* questions in **about** 100 words each. Each question carries 2 marks. $2 \times 5 = 10$

Explain briefly :

- (a) Service Process
 - (b) Monte-Carlo Simulation
 - (c) Random Numbers
 - (d) Discrete Random Variable
 - (e) Uniform distribution
 - (f) Consequences of excessive waiting time
 - (g) 'Foot in the Door' strategy
 - (h) ABC classification in queuing.
3. Answer any *four* questions in about **250** words each. Each question carries 5 marks. $5 \times 4 = 20$
- (a) Define queue and explain the types of queues.
 - (b) Explain the term 'Single Queue'. Discuss the advantages of single queuing system.
 - (c) Discuss the classification flowchart of queuing models.
 - (d) Explain Finite-Queue M/M/1 Model.

- (e) Write a short note on Normal Distribution.
- (f) Explain the first-come, first-served (FCFS) queuing policy giving examples.

4. Answer any **one** question in about **500** words :

10

- (a) Define Capacity. Explain the various elements of service capacity.
- (b) Explain the process of developing a systems simulation.