# No. of Printed Pages : 5 BSM-016 implement a st an organisation BBA (SM) (d) ...... is an i Term-End Examination between valids June, 2024 model. BSM-016 : MANAGING SERVICE OPERATION-II (e) A ...... is a s Time : 2 Hours Maximum Marks : 50 Note : Attempt questions as directed. State whether the follow

Answer all question. Each question carries 1 mark.

 $1 \times 10 = 10$ 

- 1. Fill in the blanks
  - (a) The people wait in the physical form ina line to get the service of ......
  - (b) ..... is a type of a mandatory screening process at the airports.
  - (c) ..... establishes the overall level of productive resources required to

implement a strategic business plan for an organisation.

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- (d) ..... is an important step it falls between validation and running the model.
- (e) A ..... is a special random variable that has a uniform distribution between the values 0 and 1.

State whether the following statement are True or False :

- (f) The service facility consists of multi servers can be connected either in series or in parallel.
- (g) The triage is a policy established by management to select the next customer from the queue for service.
- (h) In the self service  $M/G/\infty$  Model, no arriving customer waits to be serval.
- (i) In M/G/1 model, the expected number of customers waiting for service relates

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directly to the variability of arrival times.

- (j) The assumptions of waiting carts are lateral with time.
- 2. Answer any five questions in about 100 words. Each question carries 2 marks.  $2 \times 5 = 10$ 
  - (a) What do you mean by the economics of waiting ?
  - (b) Define queue configuration.
  - (c) What role does arrival process play in queue management?
  - (d) List the various elements of Service Capacity ?
  - (e) Distinguish between M/M/1 and M/M/C quering model.
  - (f) Define service level. How organization determine service level ?

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- (g) Differentiate between discrete and continuous random variable.
- (h) Define uniform distribution function.
- Answer any four questions in about 250 words each. Each question carries five marks each.

 $5 \times 4 = 20$ 

- (a) Explain customer-service in a call centre using service model simulation.
- (b) Explain briefly about the Monte Carlo simulation technique.
- (c) Discuss various parameter of finite-queue M/M/1 model
- (d) Describe various elements of service capacity planning.

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- (e) Define the arrival process. Describe how exponential distribution in used for the distribution of inter-arrival times ?
- (f) Define queue disciplines. Discuss the importance of the priority rule in maintaining queue discipline.
- 4. Answer any one question in about 500 words.

 $10 \times 1 = 10$ 

- (a) Enumerate the role of capacity planning for a service organisation. In what way the trade off between waiting cort and waiting time affects the planning ?
- (b) Explain the process of queue formation in a service organisation. How queue formation economically impacts the service firms ?

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