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**Question Paper Code** 

13330

## MBA - DEGREE EXAMINATIONS, NOV / DEC 2024

Second Semester

#### **Master of Business Administration**

### 20MBT207 - INFORMATION SYSTEMS AND BUSINESS ANALYTICS

Regulations - 2020

Duration: 3 Hours Max. M				cs: 10	00	
	PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions			Marks K- Level CO		
1.	Defin	ne the term Information System.	2	<i>K1</i>	CO1	
2.	Nam	e the IS stakeholders for a retail bank.	2	<i>K1</i>	CO1	
3.	Resta	ate ACID Properties.	2	<i>K1</i>	CO2	
4.	List t	he types of data models.	2	<i>K1</i>	CO2	
5.	Reca	ll the business analytics applications in real time.	2	K1	CO3	
6.	Com	pare nominal and ordinal data.	2	K2	CO3	
7.	Infer	whether training data and testing data are the same. If not why?	2	K2	CO4	
8.	Dem	onstrate the relation between machine learning and big data.	2	<i>K</i> 2	CO4	
9.	Reph	rase the term Scorecard.	2	<i>K</i> 2	CO5	
10.	Cont	rast between the data exploration and data visualization.	2	K2	CO5	
11.	a)	PART - B ( $5 \times 13 = 65$ Marks) Answer ALL Questions  Illustrate SDLC life cycle and elaborate on various softw	oro 13	<i>K</i> 2	COL	
11.	a)	development life cycle methodologies.  OR	are 13	112	001	
	b)	Explain IS pyramid and functional information systems with any of FIS of your choice.	one 13	K2	CO1	
12.	a)	Summarize the concurrency problem in transactions and also control techniques adopted.	the 13	K2	CO2	
	1.	OR	13	νn	CO2	
	b)	Outline the different types of data warehousing techniques.	13	K2	CO2	
13.	a)	For analysing big data, machine learning uses different approach Indentify the approaches in detail.	ies. 13	<i>K3</i>	CO3	
	1. \	OR	- C 12	<i>V</i> 2	CO3	
	b)	Develop the steps involved in Business Analytics for an industry your choice.	01 13	N.S	COS	

- 14. a) Optimization is the backbone of machine learning. Analyse.
- 13 K4 CO4

K5 CO5

- OR
- b) Examine the steps involved in descriptive analytics and also explain 13 K4 CO4 the tools used in descriptive analytics.
- 15. a) Determine the various techniques and methods to visualize data.

  13 K5 CO5

  OR
  - b) Evaluate the term dashboard highlighting the benefits and design tips 13 K5 CO5 to get started.

## PART - C $(1 \times 15 = 15 \text{ Marks})$ (Compulsory)

A waiter takes an order at a table, and then enters it online via one of 15 16. the six terminals located in the restaurant dining room. The order is routed to a printer in the appropriate preparation area: the cold item printer if it is a salad, the hot-item printer if it is a hot sandwich or the bar printer if it is a drink. A customer's meal check-listing (bill) the items ordered and the respective prices are automatically generated. This ordering system eliminates the old three-carbon-copy guest check system as well as any problems caused by a waiter's handwriting. When the kitchen runs out of a food item, the cooks send out an 'out of stock' message, which will be displayed on the dining room terminals when waiters try to order that item. This gives the waiters faster feedback, enabling them to give better service to the customers. Other system features aid management in the planning and control of their restaurant business. The system provides up-to-the-minute information on the food items ordered and breaks out percentages showing sales of each item versus total sales. This helps management plan menus according to customers' tastes. The system also compares the weekly sales totals versus food costs, allowing planning for tighter cost controls. In addition, whenever an order is voided, the reasons for the void are keyed in. This may help later in management decisions, especially if the voids consistently related to food or service. Acceptance of the system by the users is exceptionally high since the waiters and waitresses were involved in the selection and design process. All potential users were asked to give their impressions and ideas about the various systems available before one was chosen.

# **Questions:**

1. In the light of the system, describe the decisions to be made in the area of strategic planning, managerial control and operational control? What information would you require to make such decisions?