



Dr. J. J. Magdum Trusts,
Dr. J. J. Magdum College of Engineering, Jaysingpur.
Department of Information Technology Engineering
Continuous Internal Evaluation - II

Class: B Tech Year: 2022-23 Sem: I Subject: Advanced Database System

Date: 03/12/2022

Time: 11.15 To 12.15 pm

Max Marks: 30

Q 1	Solve following MCQs (1 Mark Each)	CO
i.	An extent is which of the following? a) A keyword that indicates that the subclass inherits from a superclass b) A keyword that indicates that the superclass inherits from a subclass c) The set of all instances of a class within a database d) Only one instance of a class within a database	CO1
ii.	Which of the following is true concerning the following statement: class Manager extends Employee a) Manager is a concrete class and a superclass. b) Manager is a concrete class and a subclass. c) Manager is an abstract class and a superclass. d) Manager is an abstract class and a subclass.	CO2
iii.	Which of the following is the property of transaction that protects data from system failure? a) Atomicity b) Isolation c) Consistency d) Durability	CO1
iv.	Which of the following can replace the below query? SELECT name, course_id FROM instructor, teaches WHERE instructor_ID= teaches_ID; a) Select name, course_id from teaches, instructor where instructor_id=course_id; b) Select name, course_id from instructor; c) Select course_id from instructor join teaches; d) Select name , course_id from instructor natural join teaches	CO2
v.	The database system catalog stores what kind of information? a) Number of blocks b) Number of tuples c) Size of tuples mentioned d) All of the above	CO1
vi.	The local variables that hold write operations are copied to the database work in which phase? a) Read Phase b) Write Phase c) Validation Phase d) None of the above	CO2

Q 2	Attempt any 3 (8 Marks Each)	
	i. Explain structured data types with example.	CO1
	ii. Explain Storage and Access methods of OOD.	CO1
	iii. Explain technique for parallel query evaluation and query optimization.	CO1
	iv. Explain distributed DBMS and architecture of it.	CO1



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Class: BTech Div:____ Year: 2022-23 Sem: I Subject: Distributed Computing

Date: 02/12/2022

Time: 11.15 to 12.15 PM

Max Marks: 30

Q1	Solve following MCQs (1 Mark Each)	CO
i.	In RMI, the objects are passed by. a) value b) reference c) value and reference d) object	1
ii.	The local operating system on the server machine passes the incoming packets to the a) server stub b) client stub c) client operating system d) binding agent	1
iii.	Internet provides _____ for remote login. a) telnet b) http c) ftp d) rpc	1
iv.provides programmers a familiar programming model by extending the local procedure call to a distributed environment a). distributed environment b). permanent procedure call c). process and file d). remote procedure call	2
v	The difference between logical and physical clocks ? a) Logical clocks measure the time of day and Physical clocks are used to mark relationships among events in a distributed system. b) Both are the same c) Physical clocks measure the time of day and Logical clocks are used to mark relationships among events in a distributed system. d)Physical clock and logical clock do not work in distributed system	2

Viis an object acting as a gateway for the client side a) skeleton b) stub c) remote d) server	2
Q2	Attempt any 3 (8 Marks Each)	
	i. Explain Synchronization with its communication diagram	1
	ii. What is Buffering? & what are the different types of Buffering?	2
	iii. What are the different failures & How to failure handling in client server communication	2
	iv. List and explain features of a good scheduling algorithm.	2



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Class: B Tech Div: _-- Year: 2022-23 Sem: I Subject: Data Science

Date: 3/12/2022

Time: 2.15 To 3.15 PM

Max Marks: 30

Q1	Solve following MCQs (1 Mark Each)	CO
i.	What is data visualization? a) It is the graphical representation of information and data b) It is the numerical representation of information and data c) It is the character representation of information and data d) None of the above	2
ii.	What are the common types of data visualization? a) Charts b) Tables c) Infographics d) All of the above	3
iii.	Which of the intricate techniques is not used for data visualization? a) Heat Maps b) Fever Maps c) Bullet Graphs d) Bubble Clouds	3
iv.	A useful chart for displaying multiple variables is the a) scatter chart matrix b) scatter chart c) two-dimensional graph d) stacked column and bar chart	2
v.	A system that merges maps and statistics to present data collected over different geographies a) The heat map b) A geographical map c) Geographic information system d) None of the above	2
vi.	The most popular data visualization library in python is ____ a) matplotlib b) matplotlib	2

	c) pip d) matpiplib	
Q2	Attempt any 3 (8 Marks Each)	
	i. What is data visualization? Explain how to plot line/multiline graph with color coding and legends?	1
	ii. Explain Scatter plot with example?	1
	iii. How to Plot line, multi line, dotted line Matplotlib?	1
	iv. Explain Pie chart with example?	1

**Dr. J .J. Magdum College of Engineering, Jaysingpur.****Department of Information Technology Engineering****Continuous Internal Evaluation - II****Class: B.Tech****Year: 2022-23****Sem: I****Subject: Mobile Computing****Date: 02/12/2022****Time: 2.15 pm to 3.15 pm****Max Marks: 30**

Q1	Solve following MCQs (1 Mark Each)	CO
i.	Which of the following usually stores all user-related data that is also relevant to GSM mobile systems? a. VLR b. HMR c. CMR d. SIM	3
ii.	In which one of the following codes with specific characteristics can be applied to the transmission? a. CDMA b. GPRS c. GSM d. All of the above	3
iii.	Which of the following uses wireless as the mode of communication for transferring or exchanging data between various mobiles over a short-range? a. Ad hoc computing b. Mobile computing c. Bluetooth technology d. None of the above	2
iv.	In which one of the following, the slow and fast hopping is used? a. GSM b. GPRS c. FHSS d. None of the above	3
v.	In the Cellular Network, on which of the following, the cell's shape depends? a. Political conditions b. Social Conditions c. Environment Condition d. None of the above	4
vi.	Which one of the following enables us to use the entire bandwidth simultaneously? a.TDMA b. CDMA c. FDMA d.All of the above	3
Q2	Attempt any 3 (8 Marks Each)	
i.	Draw and explain GSM architecture and explain following entities in GSM network. 1. HLR 2. VLR 3. EIR 4. GMSC	2
ii.	Write short note on: 1. FHSS 2. DSSS	3
iii.	With diagram explain Infrastructure Network.	3
iv.	Which are the advantages and disadvantages of Infra-red and Radio Transmission.	3

