

Department of Computer Science ML SU Udaipur

Internal Assessment 23-24 MCA Sem I DBMS

Attempt any Two Questions. Duration: 1 Hr. Total: 10 Marks

Q.1. Draw the database structure and explain its components

Q.2. what are the domain constraints in DBMS. Explain with example

Q.3 what are the strings generated by operators (i) like 'ab&cd%' (ii) like 'ab\\cd%'

it connects all the three conditions.

Operating Systems Internal Examination

Time: 90 Minutes

Max. Marks 10

Note: Answer any two questions. Each carries equal marks.

1. Describe various system components in detail.
2. Different CPU scheduling algorithms may perform better than others in different situations. Give examples in support of this statement.
3. Write and explain Bakery Algorithm to solve Critical Section problem for n processes. Discuss how it satisfies all the three conditions.

Q1. Introduction to the HTML. Also write a Resume program using HTML common Tags, Headers, Text style, linking image, Formatting text, Horizontal rules and line breaks, Nested and ordered lists and Basic HTML tables.

Q2. What is java script functions? Also write a program using java script functions?

Q3. What is java script Arrays? Also write a program using Array- declaring and allocating Arrays.

M.C.A I SEM INTERNAL EXAM

Subject: ADS (MCA-8006T)

Time: 1:30 hr

Attempt any four questions:

✓ Q.1 Discuss the Priority Queue with example.

✓ Q.2 Discuss the Threaded tree and their advantages.

✓ Q.3 Discuss the basic Heap operation with example.

Q.4 Write down the algorithm to Heapify the Tree.

Q.5 Explain Decision tree with example.

✓ Q.6 Write a Short Note on Game tree and Red Black Tree with Properties.

DEPARTMENT OF COMPUTER SCIENCE

MohanlalSukhadia University , Udaipur

MCA I Internal Exam 2024

Subject Data Structure

Attempt Any Three Question

1. What is Array? Explain insertion/deletion operation in an array.
2. What is linked list? Explain singly linked list.
3. What is polish notation? Evaluate the Polish expression $- + - x 43250 / x 784$ using stack.
4. What is Queue? Explain various types of queue.

DEPARTMENT OF COMPUTER SCIENCE
MCA I SEMESTER INTERNAL ASSESSMENT 2023-24

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TIME: 90 Mins.

Note: Attempt any three questions

Q.1 Write the importance of python and Differentiate between mutable and immutable objects in Python language with example.

Q.2 Discuss the role of functions in Python. Describe about different types of parameters that are passed while calling functions using appropriate example.

Q.3 What is the difference between error and exception. How exceptions are handled in Python. Discuss about it with their rules.

Q.4 How strings are handled in python. Write a program to create a new string that is made of the first, ~~middle~~, and last characters of each input string given by the user

T3

M.M: 15

Department of Computer Science

Mohanlal Sukhadia University, Udaipur

MCA I Sem Internal Examination – January 2024

Subject : MCA8005T MIS & E-Commerce

Date : 16/1/2024

Time : 11:00 AM to 12:30 PM

JM Super Stores is a native supermarket chain based in South India. The company had a 30-year-old pricing and promotion system that was very labor intensive. That could no longer keep up with the pricing decisions required in the fast-paced grocery market. The system also limited the company's ability to execute more sophisticated pricing strategies. JM Super Store was interested in executing its pricing strategy more consistently based on a definitive set of pricing rules. It worked with TCS to deploy a system for its pricing decisions. The TCS computer based interactive system was able to handle massive amount of point-of-sale and competitive data to model and forecast consumer demand. This helped the analyst and managers in JM Super Stores effectively use their organizational knowledge to automate and streamline complex rule-based pricing schemes. The system also had forecasting capabilities. These capabilities allowed JM Super Stores to predict the impact of pricing changes and new promotions before they hit the shelves.

- (a) Which type of organisational information system has been described in the above case study? Explain its main features.
- (b) Describe the types of decisions that have been mentioned here and how information systems help in taking such decisions.
- (c) Describe how information systems help retail organisations such as JM Super Stores in managing their competitive forces.