

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

B.C.A. Sem-II : WINTER : 2024

SUBJECT: WEB DEVELOPMENT TECHNOLOGY

Day : Saturday
Date : 07/12/2024

W-26278-2024

Time : 02:00 PM-05:00 PM
Max. Marks : 100

N.B.:

- 1) Attempt **ANY FIVE** questions from Section-I and **ANY TWO** questions from Section-II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SAME** answer book.

SECTION-I

- Q.1** Discuss the benefits and limitations of VPS hosting compared to shared hosting and cloud hosting solutions. (12)
- Q.2** Explain the different approaches to header and footer configuration in terms of design flexibility and usability. (12)
- Q.3** Compare different button types commonly used in web design, such as flat, raised and ghost buttons. How does button design contribute to overall aesthetic appeal and usability? (12)
- Q.4** Discuss the importance of choosing an appropriate site name/domain for a website. How does the site name impact search engine optimization (SEO) and online visibility? (12)
- Q.5** Discuss the ethical considerations and legal implications associated with managing user data privacy within a digital platform. (12)
- Q.6** Discuss the importance of selecting visually appealing and responsive themes and analyze how customization options contribute to achieving a unique website design. (12)
- Q.7** Write short notes on **ANY THREE** of the following: (12)
- a) Page hierarchy
 - b) Free and paid plugins
 - c) Templates in WordPress
 - d) SSL (Secure Sockets Layer)
 - e) Activation of installed themes

SECTION-II

- Q.8** Outline the steps involved in installing WordPress on a web server. Explain the role of MySQL in the functioning of WordPress. (20)
- Q.9** Explain the steps involved in downloading a WordPress theme from an external source and installing it manually on your WordPress website. (20)
- Q.10** Explain how hyperlinks can be added within both posts and pages to connect different pieces of content or external resources. (20)
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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-II : WINTER : 2024
SUBJECT: DBMS-I

Day : Thursday
Date : 05/12/2024

W-26279-2024

Time : 02:00 PM-05:00 PM
Max. Marks : 60

N.B.:

- 1) Attempt **ANY FIVE** questions from Section – I and **ANY TWO** questions from Section – II.
- 2) Answer to both the sections should be written in **SAME** answer book.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1 Describe 3-tier architecture of DBMS. [12]
- Q.2 Define transaction. Explain various states of transaction. [12]
- Q.3 Differentiate network, hierarchical and relational data model. [12]
- Q.4 Explain importance of primary key and foreign key in DBMS along with its properties and example. [12]
- Q.5 What is SQL? Explain various DML commands of SQL with example. [12]
- Q.6 Describe concurrency control mechanism in detail. [12]
- Q.7 Write short notes on **ANY THREE** of the following: [12]
- a) Role of DBA
 - b) Data Independence
 - c) Strong Entity vs. Weak Entity
 - d) Database recovery

SECTION – II

- Q.8 Draw an Entity Relationship diagram for online airline reservation system. [20]
- Q.9 What is normalization? Explain 1NF, 2NF, 3NF in detail with example. [20]
- Q.10 Create following table and write SQL queries for the following: [20]
- Employee (eno, ename, dept, desig, doj, sal, location)
- a) List the employees having designation as 'Manager'.
 - b) List eno, ename, sal of employees having salary between 20000 and 30000.
 - c) List ename of employees having 1st alphabet in the name as 'A'.
 - d) Set the salary as 50000 having designation as 'Project Leader'.

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-II : WINTER : 2024
SUBJECT: FINANCIAL ACCOUNTING

Day : Tuesday
Date : 10/12/2024

W-26281-2024

Time : 02:00 PM-05:00 PM
Max. Marks : 100

N.B :

- 1) Answer **ANY FIVE** questions from **Section – I**.
- 2) Answer **ANY TWO** questions from **Section – II**.
- 3) Answers to both sections should be written in **SAME** answer book.
- 4) Use of non-programmable calculator is allowed.

SECTION - I

- Q.1** Explain types of accounts and the rules for journal entries with suitable examples. (12)
- Q.2** Explain the following with their format: (12)
i) Purchase Book
ii) Sales Book
- Q.3** What do you mean by accounting software? Explain its need in today's business environment. (12)
- Q.4** Prepare cash book with bank and discount column from the following transactions of Mr. Anil. (12)

Sept 1, 2022	Started business with cash Rs. 60,000 and machinery of Rs. 70,000.
Sept 2, 2022	Purchased goods of Rs. 50,000 with trade discount of 10%.
Sept 3, 2022	Deposited cash Rs. 35,000 in the bank.
Sept 4, 2022	Sold goods of Rs. 5,000 for cash.
Sept 6, 2022	Purchased goods of Rs. 6,000 and paid by cheque.
Sept 7, 2022	Sold goods of Rs.12,000 @ 5% cash discount

- Q.5** Mohan and Sons purchased machinery of Rs. 50,000 on 1.4.2020. Every year, depreciation is charged @ 10% by using fixed installment method. Prepare machinery account and depreciation account for the years 2020-21, 2021-22 and 2022-23. (12)
- Q.6** What is final account? Explain its importance and uses. (12)
- Q.7** Write short notes on **ANY TWO** of the following: (12)
- a) Accounting conventions.
 - b) Trial balance and its purpose.
 - c) Simple cash book.
 - d) Balance sheet.

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-II : WINTER : 2024
SUBJECT: DATA STRUCTURES USING C

Day : Thursday
Date : 12/12/2024

W-26280-2024

Time : 02:00 PM-05:00 PM
Max. Marks : 100

N.B.:

- 1) Attempt ANY FIVE questions from Section – I and ANY TWO questions from Section – II.
- 2) Answers to both the section should be written in SAME answer book.
- 3) Figures to the right indicate FULL marks.

SECTION – I

- Q.1** What is queue? Why it is known as FIFO? Write an algorithm in Insert and delete element from simple queue. (12)
- Q.2** Discuss the advantage and disadvantages of linked list over array. (12)
- Q.3** Write an algorithm for binary search and discuss its speed with linear search. (12)
- Q.4** State and explain Hash and their efficiency. (12)
- Q.5** Describe data types as an example of data structure. (12)
- Q.6** What is Array? Explain in detail two dimensional array, declaration & initialization. (12)
- Q.7** Write short note on (ANY TWO): (12)
- a) Insertion Sort
 - b) Selection Sort
 - c) Merge Sort

SECTION – II

- Q.8** Write a program in 'C' to traverse tree using :- (20)
- a) Breadth First Search
 - b) Depth First Search
- Q.9** Write a program in 'C' to create a file, store data into it and display the content of file. (20)
- Q.10** Write 'C' program for array implementation of linked list. (20)

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