

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-II :SUMMER : 2023
SUBJECT : WEB DEVELOPMENT TECHNOLOGY

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 3/5/2023

S-26278-2023

Max. Marks : 100

N.B.

- 1) Attempt **ANY FIVE** questions from Section – I and attempt **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.
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SECTION – I

- | | | |
|------------|--|------|
| Q.1 | Discuss in detail various elements of the website. | [12] |
| Q.2 | Explain in brief general configuration controls of the website. | [12] |
| Q.3 | Discuss in detail Themes with their characteristics and advantages. | [12] |
| Q.4 | Explain the process for adding and removing plugins with suitable example. | [12] |
| Q.5 | Differentiate between web posts and webpages. | [12] |
| Q.6 | How to use categories and tags to create webpages? | [12] |
| Q.7 | Write Short Notes on ANY THREE of the following: | [12] |
| | a) Dashboard | |
| | b) Homepage | |
| | c) CMS | |
| | d) WooCommerce plugin | |

SECTION – II

- | | | |
|-------------|--|------|
| Q.8 | What is Media? What are the different options available in media? | [20] |
| Q.9 | Write a code for adding WhatsApp button to web page for communication. | [20] |
| Q.10 | Explain the limitations of Wordpress website. | [20] |

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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-II :SUMMER : 2023
SUBJECT : DBMS-I

Day : Saturday

Time : 10:00 AM-01:00 PM

Date : 6/5/2023

S-26279-2023

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) Answer to both the sections should be written in the **SAME** answer book.

SECTION - I

- Q. 1** Explain three tier architecture of database management system. (12)
- Q. 2** Explain entity and its types, attribute and its types, relationship in E-R diagram. (12)
- Q. 3** Define Primary key, foreign key. List properties of primary and foreign key. (12)
- Q. 4** Explain lock and Lock based protocols for concurrency control. (12)
- Q. 5** Explain basic data security principle. (12)
- Q. 6** What is SQL? Explain various DDL commands of SQL with examples. (12)
- Q. 7** Write Short notes on **ANY THREE** (12)
- a) Data Abstraction
 - b) Functional dependency
 - c) Check points
 - d) Log based recovery

SECTION - II

- Q. 8** Write SQL Queries (20)
- i) Create following tables with appropriate constraint
Product (pid, prodnm, category, price, qty)
Customer (cid, pid, custname, city)
 - ii) Add two records in both tables.
 - iii) Display product names in ascending order.
 - iv) Add mobilenno column in customer table.
 - v) Display product whose names starting from letter 'C'.
- Q. 9** Students are taken admission in college, office procedure is completed by office employee, students attending class, they have library card with them. Students are making a project practice in laboratory with the help of above information. Design a database schema for Student Admission System by following the normalization rules. (20)
- Q. 10** Draw E-R diagram for following – (20)
- Employee working in an organization. Organization has various departments located at various places. Organization is working with various projects. Various projects are assigned to employees.



BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-II :SUMMER : 2023
SUBJECT : DATA STRUCTURES USING C

Day : Tuesday

Time : 10:00 AM-01:00 PM

Date : 9/5/2023

S-26280-2023

Max. Marks : 100

N.B.

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

SECTION- I

- | | | |
|--------------|---|------|
| Q.1 | Explain Memory representation of linked list. | (12) |
| Q.2 | Discuss in detail the various operations on stack. | (12) |
| Q.3 | Demonstrate bubble sort and selection sort with suitable example. | (12) |
| Q.4 | State and explain different file management functions. | (12) |
| Q.5 | What is tree? Explain in detail tree terminology. | (12) |
| Q.6 | What is abstract datatype? Explain different types of data structure. | (12) |
| Q.7 | Write short note on (Any Two) | (12) |
| a) Preorder | | |
| b) Postorder | | |
| c) Inorder | | |

SECTION- II

- | | | |
|------|---|------|
| Q.8 | Write a program to show effect of PUSH and POP operation on stack of size 10. The stack contains 10,20,22,26,28 and 30 with 30 is top of the stack. Show diagrammatically effect of
a) PUSH (46)
b) PUSH (48)
c) POP
d) POP
e) POP | (20) |
| Q.9 | Write a program to sort the following number in Ascending order using bubble sort. Given numbers are 348,14,614,538,47 and write a output after each iteration. | (20) |
| Q.10 | Write a program to evaluate following prefix expression -*+4 3 2 5 Show output diagrammatically each step of evaluation using stack. | (20) |

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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-II : SUMMER : 2023
SUBJECT : FINANCIAL ACCOUNTING

Day : Friday

Date : 12/5/2023

S-26281-2023

Time : 10:00 AM-01:00 PM

Max. Marks : 100

N.B :

- 1) Solve **Any FIVE Questions** from **SECTION – I**.
- 2) Solve **Any TWO Questions** from **SECTION – II**.
- 3) Figures to the right indicate **FULL** marks.
- 4) Answers to both sections should be written in **SAME** answer book.

SECTION - I

- Q.1** Explain the meaning of book keeping. What is the difference between financial accounting and book keeping? (12)
- Q.2** What is Journal? Explain its utility and importance in detail. (12)
- Q.3** What is Trial Balance? Explain its purpose in detail. (12)
- Q.4** Explain the need for Accounting Software. (12)
- Q.5** Vijay and Sons purchased machinery of Rs. 7,50,000 on 1.4.2020. It also purchased another machinery of Rs.5,00,000 on 1.1.2021. The firm adopted Reducing Balance method of depreciation @ 10% per year. You are required to prepare machinery account and depreciation account for the accounting years 2020-21, 2021-22 and 2022-23. (12)
- Q.6** Refer the following transactions of Mr. Kiran in the month of September, 2021. You are required to prepare cash book with three columns from the given transactions. (12)
- 1st Sept : Started business with cash Rs.8,00,000.
4th Sept : Purchased goods of Rs. 25,000 for cash.
7th Sept : Sold goods of Rs. 14,000 for cash @ cash discount 10%
14th Sept : Deposited Rs.1,50,000 in the bank.
26th Sept : Withdrew Rs.10,000 from bank for personal use.
27th Sept : Sold goods of Rs.10,000 @ 10% cash discount.
28th Sept : Purchased goods of Rs. 15000 @ 10 % cash discount
- Q.7** Write short notes on **ANY TWO** of the following: (12)
- a) Accounting conventions
 - b) Ledger
 - c) Any two subsidiary books
 - d) Profit & Loss Account

P.T.O.

SECTION - II

Q.8 Journalise the following transactions in the books of Mr. Sumit (20)

- 1st April : Started business with cash Rs. 7,00,000
- 2nd April : Deposited Rs. 2,00,000 in the bank.
- 3rd April : Purchased goods of Rs. 40,000 from M/s. Ketan @ 5% cash discount.
- 14th April : Sold goods of Rs. 25,000 to Mr. Akash @ 20% cash discount.
- 15th April : Paid Rs. 15,000 to M/s. Ketan by cheque.
- 16th April : Purchased goods of Rs. 45,000.
- 27th April : Received balance amount from Mr. Akash with cheque.
- 28th April : Paid advertisement expenses Rs. 6000.
- 29th April : Withdrew Rs. 10,000 from bank for office use.
- 30th April : Paid balance amount to M/s. Ketan by cheque.

Q.9 The Trial balance as on 31st March, 2022 of Mr. Anil is available with the following details of balances: (20)

Particulars	Debit Balance Rs.	Credit Balance Rs
Capital A/c	-	3,00,000
Drawings	40,000	-
Opening balance	20,000	-
Cash in hand	1,20,000	-
Cash at bank	40,000	-
Machinery A/c	4,00,000	
Furniture A/c	1,00,000	
Wages	20,000	
Purchases	4,00,000	-
Purchase return	-	40,000
Sales	-	10,00,000
Sales return	20,000	-
Debtors	2,20,000	-
Creditors	-	1,00,000
Electricity	40,000	
Salaries	10,000	
Advertisement	10,000	
Total	14,40,000	14,40,000

By considering following adjustments, you are required to prepare Trading account, Profit and Loss account and Balance Sheet as on 31st March, 2022.

- i) Closing stock is valued at Rs. 1,50,000.
- ii) Depreciate machinery and furniture @ 10% per year.
- iii) Outstanding wages: Rs. 10,000.
- iv) Create R.D.D. @ 5% on Debtors.

Q.10 a) Explain uses of Final Account. (10)

b) Elaborate various Accounting Concepts. (10)