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

Day : Saturday   Time : 02:00 PM-05:00 PM

Date : 2/12/2023   **W-26278-2023**   Max. Marks ·100

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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.

SECTION – I

Q.1	Explain various advantages and limitations of website.	[12]
Q.2	What is website configuration? Discuss its need and significance.	[12]
Q.3	What is widget? Explain features of widget with example.	[12]
Q.4	Discuss in detail media library general reading and writing setting in Wordpress.	[12]
Q.5	What is CMS? Explain features of CMS.	[12]
Q.6	Differentiate between Theme and Template.	[12]

Q.7   Write Short Notes on **ANY THREE** of the following: [12]
  a) Formatting action for post
  b) Dashboard
  c) SSL
  d) Domain registration process

SECTION – II

Q.8	How do disable comment? State different options available with it?	[20]
Q.9	Write the code for adding Facebook button of webpage for communication.	[20]
Q.10	Explain how to generate personal profile with all options.	[20]

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Day : Tuesday

Time : 02:00 PM-05:00 PM

Date : 5/12/2023

W-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 various types of database models.	**(12)**
Q. 2	Write E-R diagram notation with example.	**(12)**
Q. 3	Explain Codd's rules.	**(12)**
Q. 4	Explain transaction scheduling with scheduling operation.	**(12)**
Q. 5	Explain types of failure in database system.	**(12)**
Q. 6	What is need of normalization. Define First Normal form , Second Normal form and Third Normal form with example.	**(12)**

Q. 7 Write Short notes on **ANY THREE** **(12)**

a) Properties of transaction
b) Deadlock
c) Characteristics of database
d) Shadow Paging

SECTION - II

Q. 8 Draw E-R diagram for College Management System **(20)**

Q. 9 i) Create following tables **(20)**
Hotel (Hotel_No, Name, Addr)
Guest (Guest_No, Gname. Address)
Room (Room_No, Hotel_No, Type, Price)
ii) Add two records in each table.
iii) List full details of all hotels.
iv) List full details of all hotels in 'London'.
v) List the names and address of all guests in 'London' alphabetically ordered by name.

Q. 10 Explain following terms **(20)**
i) Functional Dependency.
ii) DBMS.
iii) Entity.
iv) Unique Key.
v) Attribute.

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

Day : Thursday

Date : 7/12/2023

W-26280-2023

Time : 02:00 PM-05:00 PM

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	Differentiate between linear search and binary search.	(12)
Q.2	Define sorting and explain any two sorting techniques with suitable example.	(12)
Q.3	Discuss in detail any two applications of stack.	(12)
Q.4	Draw the diagram of queue to represent front and rear pointer of queue and demonstrate with program to add and remove element in queue.	(12)
Q.5	Explain Modes of File handling in C.	(12)
Q.6	Discuss the circular linked list with example.	(12)
Q.7	Write short note on (**Any Two**)	(12)
a)	Doubly linked list	
b)	Stack	
c)	Binary Tree	

SECTION-II

Q.8	Write a program to find the position of element 29 using binary search method in an array A={11,5,21,3,29,17,2,43}	(20)
Q.9	Write a program to insert an element to linear queue.	(20)
Q.10	Write a program to construct binary search tree using following element 35,15,40,7,10,100,28,82,53,25,3. Show diagrammatically each step of construction of BST.	(20)

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Day : Saturday

Time : 02:00 PM-05:00 PM

Date : 9/12/2023

W-26281-2023

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

SECTION-I

Q.1 Define book keeping. Explain system of book keeping. **(12)**

Q.2 What are the different features of accounting packages? Explain them in brief. **(12)**

Q.3 Give classification of account. Explain the rules of journal entries as per type **(12)** of account with suitable example.

Q.4 What are different subsidiary books? Explain any two types of subsidiary **(12)** books along with their format or structure.

Q.5 From the following transactions of Mr. Ashok, you are required to prepare Cash **(12)** Book with two columns.

1st Jan 22 :	Deposited Rs.25,000 in the bank.
2nd Jan 22:	Purchased goods of Rs.13,000 for cash.
3rd Jan 22 :	Sold goods of Rs.12,000 and received cheque for the same.
4th Jan 22:	Sold goods of Rs. 6,000 for cash
5th Jan 22:	Purchased furniture of Rs.3,000 for cash
6th Jan 22:	Withdrew Rs 3,000 for personal use.
7th Jan 22:	Paid office rent of Rs.13,000 by cheque.

Q.6 Sunil and Co purchased machinery of Rs. 2,00,000 on 1-4-2020. It purchased **(12)** another machinery of Rs.3,00,000 on 1-4-2021. On 31-3-2022 the company sold machinery for Rs.1,80,000 which was purchased on 1-4-2020. If the company has adopted reducing balance method of depreciation @ 10% per year, you are required to prepare machinery account for the years 2020-21, 2021-22 and 2022-23.

Q.7 Write short notes on any **TWO** of the following: **(12)**
  a) Accounting concepts
  b) Financial Accounting Vs Book keeping
  c) Trial balance and its purpose
  d) Meaning and utility of Ledger

P. T. O.

SECTION-II

Q.8 **a)** Explain scope and limitations of financial accounting. **(10)**

b) What do you mean by final account? Explain need of final account. **(10)**

Q.9 Enter the following transactions in the books of Mr. Amitabh for the year **(20)** 2020.

June 1 : Started business with cash Rs.2,00,000 and machinery Rs.40,000.

June 2 : Purchased goods from Mr. Govind worth Rs. 1,50,000 @10% trade discount.

June 3 : Sold goods to Mr. Abhinav worth Rs.1,00,000 @ 10% trade discount.

June 4 : Received cash from Mr. Abhinav Rs. 85,000 as full and final payment.

June 6 : Sold machinery of Rs. 13,000.

June 7 : Paid for Administrative expenses Rs, 5,000.

June 8: Paid Rs. 50,000 to Mr. Govind by cheque.

June 9 : Withdrew Rs. 5,000 for personal use.

June 10 : Paid Rs, 2,000 for carriage.

June 10 : Paid balance amount to Mr. Govind by cheque.

Q.10 From the following Trial Balance of Mr. Sambhaji as on 31st March, 2021 **(20)** and the adjustments given below it, you are required to prepare Trading Account, Profit and Loss Account and Balance Sheet as on 31st March, 2021.

Particulars	Debit Balance Rs.	Credit Balance Rs.
Capital A/C	-	1,80,000
Drawings	20,000	-
Purchases	4,00,000	-
Purchase Return	-	20,000
Sales	-	8,00,000
Sales Return	40,000	-
Opening Stock	20,000	-
Wages	30,000	-
Power and fuel	20,000	-
Salaries	3,00,000	-
Bad Debts	10,000	-
Office Expenses	15,000	-
Advertisement Expenses	5,000	-
Insurance Premium	20,000	-
Commission paid	10,000	-
Rent and Taxes	30,000	-
Debtors	1,00,000	-
Creditors	-	80,000
Bank Loan	-	10,000
Bills payable	-	30,000
Bills Receivable	50,000	
Machinery	50,000	
	11,20,000	11.20.000

Adjustments:

i) Closing stock is valued at Rs.1,40,000.

ii) Outstanding : Wages Rs. 5,000
Salaries Rs. 10,000.

iii) Provide depreciation @ 10% per year on machinery.

iv) Create RDD @ 10% on debtors.

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