



B.C.A. I Semester Degree Examination, March/April - 2023

COMMERCE

Accountancy - I

(NEP)

Time : 2 Hours

Maximum Marks : 60

SECTION - A

1. Answer the following sub-questions. Each question carries **one** mark. **10x1=10**
- (a) Define Accounting.
 - (b) What is Book - keeping ?
 - (c) Write any two accounting concepts.
 - (d) What is Journal ?
 - (e) What is Subsidiary Book ?
 - (f) Define Bank Reconciliation statement.
 - (g) What is Endorsement of Bill ?
 - (h) What is Contra Entry ?
 - (i) What is Manufacturing Account ?
 - (j) Give any two advantages of Trading Account.

SECTION - B

Answer **any four** of the following questions, each question carries **five** marks.

4x5=20

2. Write the objectives of Accounting.
3. State the rules for debit and credit as per Double Entry System.
4. Prepare the Ledger Account of Mr. Ashok in the following transactions.
- | | |
|-----------|---------------------------------------|
| 1-1-2021 | Bought goods from Mr. Ashok Rs. 6,000 |
| 5-1-2021 | Received from him cash Rs. 2,400 |
| 6-1-2021 | Sold goods to him Rs. 4,000 |
| 12-1-2021 | Return goods to him worth Rs. 200 |
| 16-1-2021 | Purchase goods to him 2,000 |
| 23-1-2021 | Return goods to him 400 |
| 30-1-2021 | Paid him cash an account Rs. 3,000 |



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5. On 31-3-2021 There was a balance of Rs. 8,900 in the bank A/c of Mr. Bhasker as per his cash book (bank column).
- The receipt side of the bank column of the cash book had been overcast by Rs. 2,000
 - Cheques amounting to Rs. 7,520 were deposited & entered in books but not cleared
 - Cheques issued amounting to Rs. 10,460 have not been presented
 - Discount allowed Rs. 220 has been entered in the bank column
 - A credit note of Rs. 580 received in March 2021 has not been entered in the books

You are required to prepare Bank Reconciliation Statement.

6. Write the specimen to form of a Bill of Exchange.
7. From the following Trial Balance (containing some errors) prepare correct Trial Balance :

Particulars	Dr.	Cr.
Purchase	60,000	
Reserve Fund	20,000	
Sales		1,00,000
Purchase return	1,000	
Sales return		2,000
Opening Stock	30,000	
Expenses		20,000
Closing Stock		40,000
Outstanding Expenses	2,000	
Bank Balance	5,000	
Machinery	50,000	
Debtors		80,000
Creditors		30,000
Capital	94,000	
Suspense A/C		10,000
	2,72,000	2,72,000



SECTION - C

Answer **any three** of the following questions each question carries **ten** marks.

3x10=30

8. What is meant by Accounting ? Explain the advantages and Limitations of Accounting.

9. Journalise the following transactions.

1-1-2021 Kumar started with business

Cash Rs. 10,000

Goods Rs. 20,000

Furniture Rs. 5,000

2-1-2021 Deposited in to Bank Rs. 8,000

5-1-2021 Bought goods from Suresh & Co. Rs. 15,000

8-1-2021 Goods returned to Suresh & Co. Rs. 1,000

10-1-2021 Sold goods to Veeresh Rs. 8,000

12-1-2021 Received goods returned from Veeresh Rs. 500

14-1-2021 paid rent by cheque Rs. 1,000

15-1-2021 Commission due from Harsha Rs. 500

18-1-2021 Withdraw cash from bank Rs. 2,000

20-1-2021 Paid Salary to Virat. Rs. 10,000

10. Enter the following transactions in proper Subsidiary Books.

1-1-2021 Bought goods from Ajay Rs. 6,500

3-1-2021 Sold goods to Bimal Rs. 1,000

4-1-2021 Allowance claimed from Ajay for shortage Rs. 100

5-1-2021 Sold goods to Chatterjee Rs. 1,500

6-1-2021 Sold goods to Das Rs. 500

8-1-2021 Allowance granted to Das for Shortage Rs. 50

9-1-2021 Purchase goods from Dinesh Rs. 1,000

10-1-2021 Bought goods from Elvin Rs. 1,000

12-1-2021 Return goods to Elvin Rs. 200

14-1-2021 Sold goods to Govind Rs. 700

15-1-2021 Govind returned goods Rs. 100



11. From the following Trial Balance of Mr. Chiranjeevi as on 31-12-21 prepare Trading A/c, P/L, A/c & Balance Sheet.

Particulars	Debit	Credit
Opening Stock	25,000	
Bills payable		6,000
Bills receivable	5,000	
Returns	2,500	3,500
Wages	9,600	
Purchase	1,03,500	
Sales		1,62,500
Salaries	11,000	
Rent	3,500	
Electricity Exp	1,500	
Insurance	1,300	
Machinery	30,000	
Furniture	5,000	
Debtors & Creditors	16,200	12,000
Cash in hand	9,900	
Capital A/C		50,000
Drawings	10,000	
	2,34,000	2,34,000

Adjustments :

- Outstanding wages Rs. 300
 - Prepaid insurance Rs. 200
 - Depreciation on Machinery @ 5% and Furniture @ 10%
 - Closing Stock as on 31-12-2021, Rs. 18,000
12. What is Bills of Exchange ? And write advantages of Bills of Exchanges.

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B.C.A. I Semester Degree Examination, March/April - 2023

COMPUTER SCIENCE

Mathematical Foundation

(NEP)

Time : 2 Hours

Maximum Marks : 60

Note : Answer **all** the sections.

SECTION - A

Answer the following sub-questions. Each sub-question carries **one** mark. **10x1=10**

1. (a) Define contradiction.
- (b) State De Morgan's laws.
- (c) If $A = \begin{bmatrix} 1 & 2 \\ 3 & 0 \end{bmatrix}$, $B = \begin{bmatrix} 5 & 4 \\ 6 & 7 \end{bmatrix}$ find $A+2B$.
- (d) If $A = \begin{bmatrix} x & 2 \\ 4 & 8 \end{bmatrix}$ is a singular matrix, find 'x'.
- (e) Express 225° (degree) in radians.
- (f) Find the numerical value of $\sin 150^\circ$.
- (g) Differentiate $2x^2 + 3x + 4$ wrt x .
- (h) Find $\frac{d^2y}{dx^2}$ for $y = x^3 + 3x^2 + 2x + 5$.
- (i) Evaluate : $\int_0^2 x^3 dx$
- (j) Evaluate : $\int 2x^3 - 5x + 3 dx$



SECTION - B

Answer **any four** of the following questions. Each question carries **five** marks.

4x5=20

2. State the converse, inverse and contrapositive for the following proposition. "If a quadrilateral is parallelogram then its diagonal bisects each other".

3. Find the inverse of a matrix $A = \begin{bmatrix} -5 & 6 \\ -9 & 7 \end{bmatrix}$.

4. Show that $\cos 2A = 1 - 2 \sin^2 A$.

5. Evaluate : $\lim_{x \rightarrow 0} \frac{x}{\sqrt{1+x} - \sqrt{1-x}}$.

6. Evaluate : $\int x \sec^2 x \, dx$.

7. By using properties of determinants show that $\begin{vmatrix} 1 & a & bc \\ 1 & b & ca \\ 1 & c & ab \end{vmatrix} = (a-b)(b-c)(c-a)$.

SECTION - C

Answer **any three** of the following questions. Each question carries **ten** marks.

3x10=30

8. (a) What is Quantifier ? Explain types of Quantifiers.

(b) Construct the Truth table for the following proposition $(P \wedge \sim q) \leftrightarrow \sim p$.

9. Solve the following by Cramer's rule.

$$\begin{aligned} x + y + z &= 7 \\ 2x + 3y + 2z &= 17 \\ 4x + 9y + z &= 37 \end{aligned}$$

10. If $\cot x = 5/12$, where x is in 3rd Quadrant. Then find all the remaining Trigonometric ratios.

11. Show that the function $f(x) = \begin{cases} x^3 - 3, & \text{if } x \leq 2 \\ x^2 + 1, & \text{if } x > 2 \end{cases}$ is continuous at $x=2$.

12. Evaluate : $\int_0^2 \int_0^1 x^2 y^2 \, dx \, dy$

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BCA I Semester Degree Examination, March/April - 2023

COMPUTER SCIENCE

Web Designing

(NEP)

Time : 2 Hours

Maximum Marks : 60

Note : Answer **All** Sections.

SECTION - A

1. Answer the following sub-questions. Each sub-question carries 1 mark. **10x1=10**
- (a) What is web browser ?
 - (b) Expand HTTP.
 - (c) Write three different types of style sheets.
 - (d) Name any two Font properties.
 - (e) Who developed JavaScript ?
 - (f) Write the syntax of if else statement in JavaScript.
 - (g) What is an event in JavaScript ?
 - (h) What is use of navigator object ?
 - (i) What is element visibility ?
 - (j) What is stacking elements in JavaScript ?

SECTION - B

Answer **any 4** questions. Each question carries 5 mark.

4x5=20

- 2. Explain and <a> tags with syntax and example.
- 3. Explain any 2 types of selector forms.
- 4. Explain keyboard input and screen output in JavaScript.
- 5. Write a short note on DOM.
- 6. Write a program to illustrate element visibility.
- 7. Explain <Table> tag and its attributes.



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SECTION - C

Answer **any 3** questions. Each question carries **10** marks.

3x10=30

8. Explain basic structure of XHTML program with an example.
9. (a) Write a short note on Box Model.
(b) Explain and <div> tags with an example.
10. Write a JavaScript program to find factorial of given number.
11. Explain handling events from Body and Button elements ?
12. Explain absolute and relative positioning elements with an example.

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BCA I Semester Degree Examination, March/April - 2023

COMPUTER SCIENCE

Programming in 'C'

(NEP)

Time : 2 Hours

Maximum Marks : 60

Note : Answer **all** sections.

SECTION - A

- I. 1.** Answer **all** the questions. Each question carries **1** mark. **10x1=10**
- (a) Who developed C language ?
 - (b) How much memory required to store integer value ?
 - (c) Write symbol for address operator.
 - (d) Mention any two jump controls in C language.
 - (e) What is an array ?
 - (f) Define String.
 - (g) Write any two advantages of user defined functions.
 - (h) Define Pointer.
 - (i) Which Operator is used to access structure members in structure ?
 - (j) What is Union ?

SECTION - B

- II.** Answer **any 4** questions. Each question carries **5** marks. **4x5=20**
- 2.** Write Structure of a C program.
 - 3.** Explain different Logical Operators in C.
 - 4.** Mention types of array. Explain any one type of array.
 - 5.** Write Syntax to declare and initialize pointer.
 - 6.** Differentiate between Structure and Union.
 - 7.** Write Syntax and flowchart for if else statement.



SECTION - C

III. Answer **any 3** questions. Each question carries **10** marks.

3x10=30

- 8.** Explain characteristics of C language.
- 9.** (a) Write a program in C to find biggest 3 numbers.
(b) Differentiate between while loop and do-while loop.
- 10.** Explain different String handling function in C.
- 11.** Explain any two types of user defined functions.
- 12.** How to define a Structure and Union ? Explain with example.

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