

2020(June)

Full Marks : 100

Pass Marks : 40

Subject : Digital Computer Organization (2BCA1)

Candidates are required to give the answers in their own words as far as practicable.

The questions are of equal value.

Answer any three questions.

1. Explain the classifications of computers and differentiate between Digital and Hybrid computers.
2. Describe the use of K-Map for computer circuit design explain with example.
3. Explain Octal, Hexadecimal and Binary number system.
4. Describe architecture of a computer hardware with a labelled diagram and explain the function of ALU.
5. Describe Logic Gates. And explain NAND-NOR gate with example.

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Subject : Advance Programming in C (2BCA2)

Candidates are required to give the answers in their own words as far as practicable.

The questions are of equal value.

Answer any three questions.

1. Write short notes on the following.
 - a) Preprocessor directive
 - b) Relational Operators
 - c) Bitwise Operators
 - d) for loop
 - e) Decision Control structure
 - f) Indirection Operator
 - g) Address Operator
 - h) Size of Operator
2. What are the differences between sequential and random file organisation. Explain fseek () and ftell () with syntax and example.
3. What is the relationship between an array name and a pointer? How is an array name to be interpreted when it appears as an argument to a function? Explain this with an example. Give any two differences between 'call by value' and 'call by reference' methods. Also, give an example for each method..
4. Explain 'structure' and 'union' with an example for each, with appropriate syntax. Further, explain the difference between them. Write a program in C to convert a decimal number to its binary equivalent.
5. Write a recursive function to calculate the factorial of an integer number

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Subject : Fundamental Data Structure (2BCA3)

Candidates are required to give the answers in their own words as far as practicable.

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Answer any three questions.

1. Write the method of defining and accepting data in a two dimensional array with the help of an algorithm.
2. Explain memory allocation and de-allocation and justify why it is needed in a program.

Or

Describe linear and non-linear data structure with example.

3. Define stack? Explain PUSH and POP with reference to use in a stack.
4. Explain Queue data structure and explain how it is different from stack.
5. Describe Tree traversing. Explain PRE-ORDER traversing with a suitable example.

Or

List out difference between dynamic memory allocation and static memory allocation.

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Subject : Application Programming in FoxPro (2BCA4)

Candidates are required to give the answers in their own words as far as practicable.

The questions are of equal value.

Answer any three questions.

1. Explain FoxPro and its various versions. What are the essential H/W and S/W requirement for installation of Fox- Pro?
 2. Explain the use of SET commands in Fox Pro List any five SET commands with their functions.
- Or
- Define Input and Output function in a FoxPro Application Program. List all the Input and Output commands available in Fox Pro.
3. What do you mean by Sorting and Indexing? Write the commands for Sorting and Indexing.
 4. What is Looping in a program ? Explain the Looping syntax in FoxPro.
 5. Write short notes on any two of the following:
 - (a) DBF
 - (b) Record and Field
 - (c) LOCATE and SEEK
 - (d) Report and Label

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Subject : Financial Accounting (2BCA5)

Candidates are required to give the answers in their own words as far as practicable.

The questions are of equal value.

Answer any three questions.

1. Explain Accounting system and list out its advantage for any business organization.
2. Describe the various types of accounting.

Or

Explain the use of vouchers. Describe any three types of vouchers.

3. Explain financial transaction. Differentiate between sales and purchase transactions.
4. Prepare a sample of Cash Book with 20 transactions.

Or

List out the differences between Cash Book and Journal Entries.

5. Describe Group heads and Sub-group heads for a retail business system.