

**UG-367**

**BSCS-04**

**B.Sc. DEGREE EXAMINATION —  
DECEMBER, 2019.**

**First Year**

**Computer Science**

**INTRODUCTION TO COMPUTER ORGANIZATION**

**Time : 3 hours**

**Maximum marks : 75**

**PART A — (5 × 5 = 25 marks)**

**Answer any FIVE questions.**

1. Explain briefly on the Von Neumann Architecture.
2. Discuss briefly about logic gates.
3. Write note on RAM with its types.
4. Explain briefly about I/O process.
5. Give brief note on addressing mode.
6. Write about the assembly language program development tools.
7. Explain about strings with example.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain about data representation.
  9. Give detail discussion on Boolean algebra.
  10. Discuss about primary and secondary memory.
  11. Give elaborate discussion about I/O Organisation.
  12. Explain about microinstruction.
  13. Discuss about Motorola 68000 microprocessor.
  14. Write a detail note on CPU components.
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**BSCS-05**

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DECEMBER, 2019.**

**First Year**

**Computer Science**

**'C' PROGRAMMING AND DATA STRUCTURES**

**Time : 3 hours**

**Maximum marks : 75**

**PART A — (5 × 5 = 25 marks)**

**Answer any FIVE questions.**

1. Write a C program using goto statement.
2. Explain the following
  - (a) Variable declaration with example.
  - (b) Enumerated data types
3. What is an array? Explain array dimensions with suitable example.
4. Write a C program for of 12<sup>th</sup> multiplication table using for loop.

5. What are the operations on stack? Explain with neat algorithms.
6. Write a brief note on kruskal algorithm.
7. Discuss briefly about heap sort.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions

8. Explain about operators in C with suitable examples.
9. Discuss about control structures in C with suitable code.
10. Write a C program to calculate the total, average and grade for student marks list using structure.
11. Explain briefly about double linked list and its operation with neat algorithms.
12. Explain queue data structure and its operations with neat algorithms.
13. Give elaborate discussion on binary tree traversals and its algorithms with example.
14. Explain about binary search tree operations with example.

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**BSCS-06**

**B.Sc. DEGREE EXAMINATION –  
DECEMBER 2019.**

**First Year**

**Computer Science**

**VISUAL BASIC PROGRAMMING**

**Time : 3 hours**

**Maximum marks : 75**

**PART A — (5 × 5 = 25 marks)**

**Answer any FIVE questions.**

1. Discuss in detail about the Dialog Box.
2. Explain about the User Interface Design.
3. Describe about the Keyboard events.
4. Illustrate the Error Objects.
5. Explain about the WHILE loops with syntax.
6. Write about the OLE.
7. Discuss about the WINAPI.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Describe about the Components of Windows Program.
  9. Write detail about the Visual Basic IDE.
  10. Explain in detail about the Design and Run-Time Properties.
  11. Discuss about the Scope Rules and Control Structures.
  12. Describe about the Graphics Handling and MDI.
  13. Briefly explain about the Linking and embedding an excel worksheet with VB Project.
  14. Describe about the to create an ActiveX control project.
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