

UG-721

BCA-01

**B.C.A. DEGREE EXAMINATION –
JUNE, 2018.**

First Year

COMPUTER FUNDAMENTALS AND PC SOFTWARE

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. What is memory and Types of memory?
2. Explain classification of computers.
3. Explain the structure of Computer.
4. Explain the types of Transmission.
5. Write short notes on Recycle bin.
6. What is Media and what are the Types of Media?
7. Write basic concepts in power points.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain various Types of Computer languages.
 9. Explain the following:
 - (a) Parallel processing
 - (b) Pipeline.
 10. Explain evolution of operating system.
 11. Discuss Network and Network Types and Applications
 12. Explain cryptography and Role of cryptography
 13. Explain computer virus. And use and types of virus.
 14. Briefly explain in detail Mail merge concepts.
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UG-722

BCA-02

**B.C.A. DEGREE EXAMINATION —
JUNE, 2018.**

First Year

C PROGRAMMING AND DATA STRUCTURES

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Explain the structure of C program.
2. What is variables and how to declare a variable in C?
3. Write short notes on pointer variable with suitable example.
4. Explain in detail about Queue and its operations.
5. What is graph and what are the types of graph explain briefly.
6. Explain B —Tree and write its operations.
7. Write short notes on prototyping.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Discuss switch statement with example program.
9. Explain Bubble sort algorithm with suitable example.
10. Briefly explain Inorder, preorder, postorder with example.
11. Explain in details with storage classes in C language.
12. Discuss Breadth first search BFS with example.
13. What are the advantages and disadvantages in file organization?
14. What is searching and explain any one searching technique with example?

UG-723

BCA-03

**B.C.A. DEGREE EXAMINATION —
JUNE, 2018.**

First Year

INTRODUCTION TO SYSTEM SOFTWARE

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. What are the differences ranging from subroutine and function?
2. Discuss about the Syntax Analyser.
3. Explain Time sharing system.
4. Discuss about paging.
5. What is meant by process? Discuss processes related UNIX commands in detail.
6. What are File permissions? Explain.
7. Explain the features of UNIX operating system.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Describe the phases of a compiler.
9. (a) Explain utility of Lex and Yacc.
(b) What is GUI and elaborate its features.
10. Explain the Round-Robin and priority scheduling.
11. What is meant by deadlock? How to prevent and avoid deadlock?
12. Explain the File system commands in detail.
13. How to set the date and maintain user accounts in detail?
14. Discuss about the System Administration in detail.

UG-724

**BSCS-04/
BCA-04**

**B.Sc./ B.C.A. DEGREE EXAMINATION –
JUNE, 2018.**

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. Write short notes on decimal and alphanumeric representation with examples.
2. Discuss on peripheral devices.
3. Write short notes on One address and Two address instructions with examples.
4. Briefly explain the error detection code with its circuit diagram.
5. Explain with the block diagram of associative memory.
6. Briefly narrate the mapping process from instruction code to micro instruction address with diagram.
7. Briefly describe the purpose of assembly language.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Describe in detail about the following:
 - (a) Decimal
 - (b) Alpha numeric
 - (c) Fixed
 - (d) Decimal fixed
 - (e) Floating point.
9. Explain with circuit diagrams about DMA controller and DMA transfer.
10. Discuss in detail about Control memory with block diagram.
11. Explain in detail about the logic gates with graphic symbol, algebraic function and its truth table.
12. Define addressing mode. Explain the basic addressing modes with an example for each.
13. Explain in detail about the following:
 - (a) CPU- IOP communication with the process flow chart. (5)
 - (b) IBM 370 I/O channel. (5)
14. Explain the working principle of interrupts with examples.

UG-725

BCA-05

**B.C.A. DEGREE EXAMINATION —
JUNE, 2018.**

First Year

ELEMENTS OF SYSTEM ANALYSIS AND DESIGN

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Discuss the characteristics of systems.
2. Write about Cost Benefit analysis
3. Describe Input verification and Control.
4. What do you mean by modularization?
5. Define bench mark testing.
6. Discuss how to maintain a system.
7. Write short note on ergonomics.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain System Development Life Cycle.
 9. Discuss fact finding techniques.
 10. Describe Output System Design.
 11. Write about File design and organization.
 12. Explain how to select Hardware and Software for a system.
 13. Write about Management information System.
 14. Discuss Organizational issues.
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UG-726

BCA-06

**B.C.A. DEGREE EXAMINATION —
JUNE, 2018.**

First Year

**INTRODUCTION TO DATABASE MANAGEMENT
SYSTEM**

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. What are the three views of Data? Explain it.
2. Explain evaluation of DBMS in detail.
3. What are the anomalies in a database? Explain in detail.
4. Discuss the object oriented DBMS in detail.
5. Write down the elements of DBMS.
6. What are the properties of Normalization?
7. Explain about the administration of DBMS.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. What are the different types of Database models? Explain it.
9. Explain Sequential file organization and Direct file organization.
10. What are the Normalization techniques? Explain any two in detail.
11. Explain the Client/Server computing in detail.
12. Explain Relational Algebra and relational completeness in detail.
13. Explain the following SQL statements :
 - (a) DROP
 - (b) ALTER
 - (c) UPDATE
14. Explain Knowledge base management system in detail.