



TAMIL NADU OPEN UNIVERSITY
Chennai - 15
School of Computer Science

ASSIGNMENT - 1

Programme Code No	: 171
Programme Name	: Bachelor of Computer Applications
Course Code & Name	: BCA – 01 & Computer Fundamentals & PC Software
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. i) Explain the types of memories.
 ii) Define Computer Network and explain the types of networks
2. Explain the types of transmission in detail
3. Write a short note on
 - i) Machine Language
 - ii) High Level Language
4. Explain different type of input and output device.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Describe the application software and system software
2. Explain with example different type of page formatting
3. Explain the computer service and computer security



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Programme Code No	: 171
Programme Name	: Bachelor of Computer Applications
Course Code & Name	: BCA -02 & 'C' Programming and Data Structure
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. What is a pointer? Explain its advantages.
2. What are constants? How they are declared?
3. Briefly explain the structure of C program.
4. Explain storage classes in detail with an example.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Briefly explain BFS and DFS.
2. Write the algorithms for the insertion and deletion operations performed on queue.
3. Explain the operations on a binary search tree in detail.



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Programme Code No	: 171
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Course Code & Name	: BCA – 03 & Introduction to System Software
Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Explain briefly about the demand paging.
2. What are the different types of OS? Explain.
3. Discuss UNIX File system in detail.
4. What is deadlock? Discuss the necessary conditions that cause deadlock.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Discuss in detail about Backups and Restoration.
2. Explain the First Come First served and Priority
3. Explain multiprogramming with static and dynamic partition.



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Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Discuss NAND, NOR and buffer logic gates with truth table.
2. Discuss the various types of auxiliary memory.
3. Discuss Micro operation.
4. Explain loops with examples.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Explain about cache memory.
2. Explain ALU organization.
3. Discuss about assembly language programming development tools.



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Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Explain in detail about DSS.
2. Explain in detail about review and review plan.
3. What is meant by system testing? Give example.
4. Explain the properties and characteristics of Database Design.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Explain in Detail :
 - (a) Cost benefit analysis.
 - (b) Open systems.
2. What is meant by Background analysis? Illustrate with an example.
3. Classify the various types of software with examples.



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Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. List out the various basic operations of relational algebra.
2. Bring out the Client/Server Data base model.
3. Discuss about direct file organization.
4. What is Structured Query Language? Explain the various DDL statements with example.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

1. Describe the various types of Data models.
2. Explain the difference between relational DBMS and OODBMS.
3. Explain the significance of Distributed Database.



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Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

5. i) Explain the Hardware and Software.
ii) What is file? How to create file?
6. Explain the type of media and tools.
7. Explain different type of operating systems.
8. Explain different type of input and output device.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

4. Discuss about the parallel processing and vector processing.
5. Explain in detail of element of communication hardware.
6. Discuss the disk drive utilities.



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Batch	: AY 2018-19
No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

5. Distinguish between Break and Continue by giving a suitable example.
6. What is meant by looping? Explain.
7. Explain briefly about operators in C.
8. Define B-Tree and write its operations.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

4. Explain in detail about storage classes in C.
5. Explain the important file handling functions in C with examples.
6. Discuss the preorder traversal of a binary tree in detail.



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Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

5. Explain briefly about interpreters.
6. What are macros? Explain with examples.
7. What is swapping? Explain.
8. Explain in detail about different types of shells.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

4. Describe the functions of virtual memory management.
5. What is CPU scheduling? Explain.
6. Write note on Backups and Restoration of Unix in detail.



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No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

- 1.Explain Boolean Algebra.
2. Write about the structure of CPU.
- 3.Explain Assembly Language fundamentals.
- 4.Discuss about DMA in detail.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

- 1.Explain combinational circuits with neat diagram.
- 2.Explain interconnection structures.
- 3.Explain about instruction formats.



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No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Explain the Elements of a system.
2. What is document and it's Types of documentation?
3. Explain the organizational impact of MIS.
4. Explain in detail Block-box testing.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

4. Explain trends in Business Analytics.
5. Briefly explain in information system planning
6. Explain the ways to improve quality.



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No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. What are the three views of Data? Explain in detail.
2. Explain about object-oriented DBMS concepts.
3. Explain about multi key file organization.
4. Discuss about pitfalls in Relational Database Design.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

4. Explain in detail 3-tier architecture of DBMS.
5. Explain third and boyce-codd normal form.
6. Explain briefly about different types of joins with examples.



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No.of Assignment	: One Assignment for Each 2 Credits
Maximum Marks	: 100
Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

9. Explain briefly about synchronous and asynchronous transmission.
10. Explain about Multimedia.
11. What is internet? Discuss about its importance.
12. Discuss various computer languages.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

7. What is meant by Multiprogramming? Explain briefly.
8. Explain various types of computers in detail.
9. Explain mail merge concept in detail.



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Weightage	: 25%

Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

9. Explain in detail – Enumerated data types.
10. Define Pointer and write its advantages.
11. What are the applications of stack?
12. What are the advantages and disadvantages of Indexed file organizations.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

7. Explain the following operators with example
 - i) Arithmetic
 - ii) Logical
 - iii) Increment
 - iv) Bitwise
8. What are the control structures? Explain its with suitable program.
9. Explain Sorting with disk and tape in detail.



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Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Briefly explain about the selection of project.
2. Explain about Data Flow Diagram.
3. Explain the term prototyping with an example.
4. Write the attributes of a good analyst.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

7. Discuss in detail different type of feasibility.
8. Discuss in detail software selection criteria.
9. Explain various design methodologies.



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Part – A (4 x 10 = 40 Marks)

Answer the following in 200 words each. Each question carries 10 marks

1. Explain evaluation of DBMS.
2. Explain the properties of Normalization.
3. Write down the structure of distributed database.
4. Explain Client / server Database in detail.

Part – B (2 x 30 = 60 Marks)

Answer **any two** of the questions given below in 1000 words each.

7. Explain E-R Model and Hierarchical Model in detail
8. Explain Functional dependency with suitable example.
9. Discuss various SQL commands related to data definition.