ANNEXURE-I COMPUTER SCIENCE AND ENGINEERING

- 1. **Digital Electronics**: Number systems-Logic Gates, Boolean Algebraand basic Combinational circuits-Flip-Flops-Counters and registers-Additional Combinational Circuits.
- 2. **Software Engineering**: Basics of Software Engineering Designs & Life Cycle Models-Software Project Management-Requirement Analysis & Specifications-Software Design, Coding-Software testing, Debugging, Reliability, Quality Management & Maintenance.
- 3. **Computer Organisation and Microprocessors**: CPU Organization-Information representation and Arithmetic Operations-Memory Organization-I/O Organization-Fundamentals of 8086 and Advanced Processors.
- 4. **Data structures through C**: Introduction to Data structures, Searching and Sorting-Linked Storage Representation-Linked Lists-Linear Data Structures-Stacks-Linear Data Structures-Queues-Non-Linear Data Structures-Trees.
- 5. **Computer Networks**: Introduction to Networks-LAN components, Devices, tools, and Network Topologies-Network Addressing and sub-netting-Networks protocols and management-Basic Network administration.
- 6. **Operating Systems**: Introduction to Operating system-Process management-Synchronization & Deadlocks-Memory management-Disk scheduling and File management
- 7. **DBMS**: Concepts of DBMS & RDBMS-Concepts of SQL-Basics of PL/ SQL-Advanced PL/SQL-Concepts of NoSQL & MongoDB.
- 8. **Object oriented Programming through C++**: Object oriented programming concepts & Introduction to C++-Functions, Arrays, Pointers & References-Constructors, Destructors & Operator Overloading-Inheritance& Virtual functions-C++ I/O & Templates.
- 9. **Java Programming**: Basics of java and overloading-Concepts of inheritance, overriding, Interfaces and Packages-I/O Streams and Collections-Exception handling and Multithreaded Programming-Applets, AWT and Event Handling.



10. **Web Technologies:** Principles of Web Designing and HTML Introduction-Understand various HTML tags and usage of style sheets-Understand XML and Client side scripting using Java Script-JavaScript Ajax and J Query-Web servers and Server side scripting using PHP.



ANNEXURE-II

Number of questions to be set unit wise (Total 100)

COMPUTERSCIENCEANDENGINEERING

UnitNo	Торіс	Weightage_Marks
1	Digital Electronics	08
2	Software Engineering	08
3	Computer Organization and Microprocessors	12
4	Data Structures through C	10
5	Computer Networks	12
6	Operating Systems	12
7	DBMS	10
8	Object Oriented Programming through C++	10
9	Java Programming	10
10	Web Technologies	08

ANNEXURE - III

MODELQUESTIONSFOR COMPUTERSCIENCEANDENGINEERING

- 1. In a circular linked list, the in sertionofa record involves modification of
 - 1. 3pointers
 - 2. 4pointers
 - 3. 2pointers
 - 4. Nopointers
- 2. Which of the following layer of OSI reference model deals with end to end communication?
 - 1. Presentation layer
 - 2. Session layer
 - 3. Network layer
 - 4. Transport layer