**MODULE: 1**

**SE – Overview Of IT Industry**

1. **What is a Program?**
2. **Explain in your own words what a program is and how it functions.**
3. **What is Programming?**
4. **What are the key steps involved in the programming process?**
5. **Types of Programming Languages:- What are the main differences between high-level and low-level programming languages?**
6. **World Wide Web & How Internet Works**
7. **Describe the roles of the client and server in web communication.**
8. **Network Layers on Client and Server:- Explain the function of the TCP/IP model and its layers.**
9. **Client and Servers:- Explain Client Server Communication**
10. **Types of Internet Connections:- How does broadband differ from fiber-optic internet?**
11. **Protocols:- What are the differences between HTTP and HTTPS protocols?**
12. **Application Security:- What is the role of encryption in securing applications?**
13. **Software Applications and Its Types:- What is the difference between system software and application software?**
14. **Software Architecture:- What is the significance of modularity in software architecture?**
15. **Layers in Software Architecture:- Why are layers important in software architecture?**
16. **Software Environments:- Explain the importance of a development environment in software production.**
17. **Source Code:- What is the difference between source code and machine code?**
18. **Github and Introductions:- Why is version control important in software development?**
19. **Student Account in Github:- What are the benefits of using Github for students?**
20. **Types of Software:- What are the differences between open-source and proprietary software?**
21. **GIT and GITHUB Training:- How does GIT improve collaboration in a software development team?**
22. **Application Software:- What is the role of application software in businesses?**
23. **Software Development Process:- What are the main stages of the software development process?**
24. **Software Requirement:- Why is the requirement analysis phase critical in software development?**
25. **Software Analysis:- What is the role of software analysis in the development process?**
26. **System Design:- What are the key elements of system design?**
27. **Software Testing:- Why is software testing important?**
28. **Maintenance:- What types of software maintenance are there?**
29. **Development:- What are the key differences between web and desktop applications?**
30. **Web Application:- What are the advantages of using web applications over desktop applications?**
31. **Designing:- What role does UI/UX design play in application development?**
32. **Mobile Application:- What are the differences between native and hybrid mobile apps?**
33. **DFD (Data Flow Diagram).:- What is the significance of DFDs in system analysis?**
34. **Desktop Application:- What are the pros and cons of desktop applications compared to web applications?**
35. **Flow Chart:- How do flowcharts help in programming and system design?**