

**BE Semester- VI - Software Engineering (Information Technology)
Question Bank**

(All questions carry equal marks (10 marks))

Q.1	What is Software Engineering? What is the role of software engineer Compare Hardware and Software product characteristic.
Q.2	Explain Spiral Model and its advantages. Compare Prototype Model and Spiral Model.
Q.3	Explain Feasibility Study with the example of ATM Machine in Banking System. Draw use case diagram of ATM Machine.
Q.4	How to Collect requirement? Explain different methods to Collect requirement. What is its importance in Software Engineering?
Q.5	List five requirement of Library management System. Draw DFD level-0 and DFD Level-1 for Library Management System.
Q.6	What is Software Measurement? How to Calculate Cost of Software? Explain Software metrics used for S/w cost estimation.
Q.7	Compare: Coupling and Cohesion. Explain Different types of Coupling and its effect on software modules.
Q.8	What is the importance of User Interface? Explain User Interface Design Rules with examples.
Q.9	Explain Software Quality Assurance and its importance. Also Explain Different CMM Level.
Q.10	What is Software testing? What is the role of so Compare: Black box testing and White Box testing
Q.11	What is Software Reliability? What is the role of software Maintenance in Software Product?
Q.12	Explain : Unit testing , cyclomatic complexity and Load testing
Q.13	What is Risk Management? Explain RMMM plan.
Q.14	Explain Software Project Management and W5HH Principle.
Q.15	Explain Functional Requirement and Non Functional Requirement with example of Hospital Management System.
Q.16	What are CASE tools? Explain its importance in SE.
Q.17	Explain Functional Requirement and Non Functional Requirement with example of Mobile Device.
Q.18	Develop a complete use cases for the system which is known to you.
Q.19	Describe generic view of software Engineering.
Q.20	Using appropriate example explain control flow mode.
Q.21	Describe coding standards.
Q.22	List set of guidelines for BVA ? Also Explain merits and demerits of BVA.
Q.23	Describe integrated CASE Environment.
Q.24	Describe the difference between risk components and risk drivers.
Q.25	Describe requirements validation.
Q.26	Explain in detail the design issues while designing User Interface.
Q.27	Explain in brief the process model which is used in situations where requirements are well defined and stable.

Q.28	Using appropriate example explain data dictionary.
Q.29	List set of guidelines for formal technical reviews.
Q.30	What is SRS? Why SRS is known as black-box specification of the system? What are major issues addressed by SRS?
Q.31	Develop a complete use cases for the system which is known to you.
Q.32	What are different levels of testing and the goals of the different levels?
Q.33	Write short note on: Reverse Engineering.
Q.34	Explain the difference between DFD and ER diagram with symbols and example.
Q.35	Compare the relative advantages of function oriented and object oriented approaches to software design.
Q.36	Differentiate alpha testing and beta testing.
Q.37	What do you mean by software configuration? What is meant by software configuration management?
Q.38	Explain incremental model for system development. Differentiate it with spiral model.
Q.39	Explain Software Prototyping. Explain Software Project Plan.
Q.40	Define FOUR Ps for project management and explain them in detail.