

Q.P. Code :11612

[Time: 3 Hours]

[Marks:80]

Please check whether you have got the right question paper.

- N.B:**
1. **Question No.1 is compulsory.**
 2. **Attempt any three question out of remaining five.**

- Q.1 Develop a Software Requirement Specification (SRS) for developing a software for hospital management system. Create an SRS that contains the following: 20
1. Objective and Scope
 2. Product perspective
 3. Functional requirements (at least 3)
 4. Non-functional requirements
- Q.2 a) List the various metrics used for software measurement. Explain Function Point estimation technique in detail. 10
- b) Explain the various fundamental software design concepts. 10
- Q.3 a) Explain the change control and version control activities in SCM. 10
- b) What are the different categories of risks? Explain the process of Risk Projection. 10
- Q.4 a) What is Agility in context of software engineering? With suitable diagram explain Extreme Programming (XP). 10
- b) Explain basis path testing in detail. 10
- Q.5 a) Explain Test Driven Development (TDD) with an example. 10
- b) What is FTR in SQA? What are its objectives? Explain the steps in FTR. 10
- Q.6 Write short notes on any two :- 20
- (a) System testing
 - (b) Coupling and Cohesion
 - (c) Service Oriented Software Engineering
 - (d) Software Maintenance