Question Bank (K scheme)

Name of Subject: Software Engineering & Testing (SET) **Unit Test: I**

Subject Code: 315332 **Courses: IF5K**

Semester: V

Chapter No: 1 Basics of Software Engineering(12 Marks)

2 Marks

1. Explain any two characteristics of Software.
2. Explain the term SCRUM.
3. Define the terms i) Software ii) Software Engineering.
4. Explain any two communication practices.
5. Give any two advantages of RAD model.
6. Explain the term Extreme Programming.
7. Enlist core principles of software engineering practice.

4 Marks

1. Explain Software Engineering as a Layered Approach.
2. Explain Incremental Model with neat diagram.
3. Explain Waterfall Model with neat diagram.
4. Explain Agile Software Development.
5. Describe Software Process Framework Generic activities.
6. Describe any four characteristics of Agile process.
7. Explain planning principles.(Any 4)

Chapter No: 2 Software Requirement,Modeling and Design (16 Marks)

2 Marks

1. Explain following terms with reference to requirement engineering
   i) Inception ii) Elicitation.
2. Define Requirement Engineering.
3. List characteristics of good SRS.(Any 2)
4. Describe Structured Flowchart.
5. Explain symbols used in DFD.
6. Describe the term Software Design.

4 Marks

1. Draw DFD Level 0 and DFD Level 1 for Library Management System
2. Explain the translation of Analysis Model into Design Model with neat diagram.
3. Identify and enlist requirement for following modules of Hospital Management Software:
   i) Customer Module ii) Admin Module.
4. Explain notations used for preparing Structured flowchart.
5. Explain Functional and Non-Functional requirements of the software.
6. Explain the general format of Software Requirement Specification (SRS).
7. Define Use Case. Draw Use Case diagram for Railway Ticket Reservation System.

Chapter No: 3 Software Project Management (16 Marks)

2 Marks

1. Write a note on Function Point.
2. Explain LOC.
3. Define Software Project cost estimation.

4 Marks

1. Explain 4 P's in Software Project Management Spectrum..
2. Describe COCOMO model with neat diagram.
3. Use COCOMO model to calculate:
   i) Effort
   ii) Development Time
   iii) Average staff size

   If Estimated size of project is 400 KLOC.