

PUNE VIDHYARTHI GRIHA'S
COLLEGE OF SCIENCE & TECHNOLOGY
S.Y. B.SC (COMPUTER SCIENCE) – SEM-IV REGULAR AND ATKT FIRST HALF
OF APRIL-2024
SUB: Software Engineering

Q.P CODE:USCS403

(TIME :2 ½ Hrs.)

TOTAL MARKS :75M

N.B:-

1. All questions are compulsory.
2. Answers to the same question must be written together.
3. Numbers to the right indicate full marks.
4. Draw neat labeled diagrams wherever necessary.
5. Use of Non-programmable calculators are allowed.

Q1) Attempt the following (ANY FOUR) (Each of 5 marks) [20M]

- 1) What is software engineering?
- 2) what is waterfall model. Give its advantages and Disadvantages.
- 3) Explain RAD Model. Give its advantages and Disadvantages.
- 4) What is Agile Development.
- 5) Explain State Chart Diagram.
- 6) What is SRS, give components of SRS and Characteristic of SRS.

Q2) Attempt the following (ANY FOUR) (Each of 5 marks) [20M]

- 1) What is requirement engineering? Explain in detail
- 2) Explain coupling and cohesion
- 3) Explain Architectural Design
- 4) Explain Software Measurement
- 5) Write a note on project planning process
- 6) Explain system design

Q3) Attempt the following (ANY FOUR) (Each of 5 marks) [20M]

- 1) Explain Risk Identification
- 2) What are software risk?
- 3) What is project Scheduling?
- 4) Explain TimeLine chart (Gantt Chart)
- 5) Explain software Testing and its levels
- 6) Difference between Functional Oriented and Object Oriented approach

Q4) Attempt The Following (Any Five) (Each Of 3 Marks) [15M]

- 1) Explain risk categories
- 2) Basic Principles of Project Scheduling
- 3) Explain sequence Diagram
- 4) What is Spiral Model?
- 5) Explain Concurrent development Model
- 6) What is prototyping?