

17 MAR 2023

SVKM'S
Mithibai College of Arts, Chauhan Institute of Science &
Amrutben Jivanlal College of Commerce and Economics (Autonomous)
Academic Year (2022-23)

Class: SYBSC Semester: IV

Program: B.Sc Computer Science
Course Name: Software Engineering
Course Code: USMACS407
Date:

Max. Marks: 75
Time:
Duration: 2 hrs 30 minutes

REGULAR EXAMINATION

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

- 1) This question paper contains 2 pages.
- 2) Answer to each new question to be started on a fresh page.
- 3) Figures in brackets on the right-hand side indicate full marks.
- 4) Assume Suitable data if necessary.

Q1 ATTEMPT ANY 3 FROM THE FOLLOWING: [21]

- A** Define Software process. Explain software process framework with the help of a diagram. 7
- B** Explain Cultural, Economic and Organizational Feasibility in detail. 7
- C** What are the problems with waterfall model? Describe the concurrent model in detail. 7
- D** What is Spiral model? How does the Spiral Model handle the need for risk management? 7

Q2 ATTEMPT ANY 3 FROM THE FOLLOWING: [21]

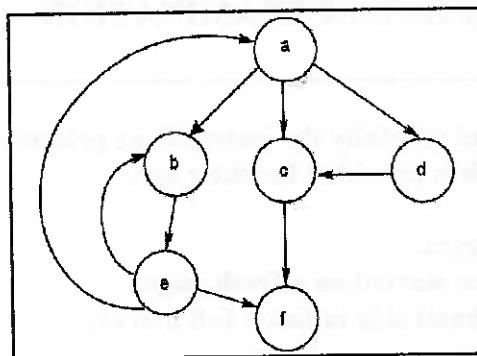
- A** What is Software Requirement Specification? State and explain the characteristics of SRS. 7
- B** Draw a State diagram for depicting a telephone call. 7
- C** Explain usecase diagram with its components. 7
- D** What is Cohesion? Explain any 3 types of cohesion. 7

Q3 ATTEMPT ANY 3 FROM THE FOLLOWING:

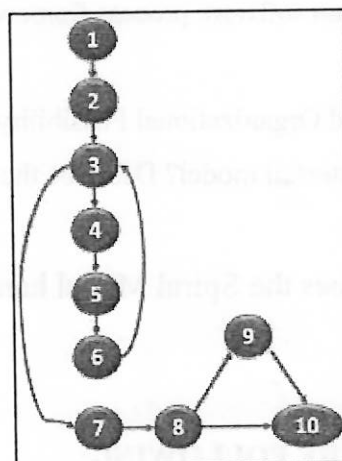
[21]

- A Write a short note on Effort Distribution and Timeline charts. 7
- B Explain Function point analysis in detail with an example. 7
- C What is testing? Discuss any 3 types of testing in detail. 7
- D Explain: Cyclomatic complexity. Find the Cyclomatic Complexity of the following figures using at least 2 ways. 7

a)



b)



Q4 ATTEMPT ANY 3 FROM THE FOLLOWING:

[12]

- A State the reasons for failure of a software. 4
- B Who are the users of the SRS document? 4
- C Write a note on stakeholders in Software engineering. 4
- D What are the two fundamental testing activities? 4
