

SVKM'S
Mithibai College of Arts, Chauhan Institute of Science &
Amrutben Jivanlal College of Commerce and Economics (Autonomous)
Academic Year (2021-22)

Class: S. Y. B. Sc. Semester: IV

Program: Bachelor of Science

Max. Marks: 50

Subject: Computer Science

Course Code / Name : USMACS407 Software Engineering

Time: 7:30 am to 9:15 am

Date: _____

Duration: 1 hr 45 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) All Questions are Compulsory
- 3) Answer to each new question to be started on a fresh page.
- 4) Figures in brackets on the right hand side indicate full marks.
- 5) Assume Suitable data if necessary

Q1. Answer the following (Any 2 out of 3)

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1. Explain Incremental Delivery and Spiral Development.
2. Explain: Software, Software Application Domains, Software Engineering
3. Explain Cultural, Economic and Organizational Feasibility in detail.

Q2. Answer the following (Any 2 out of 3)

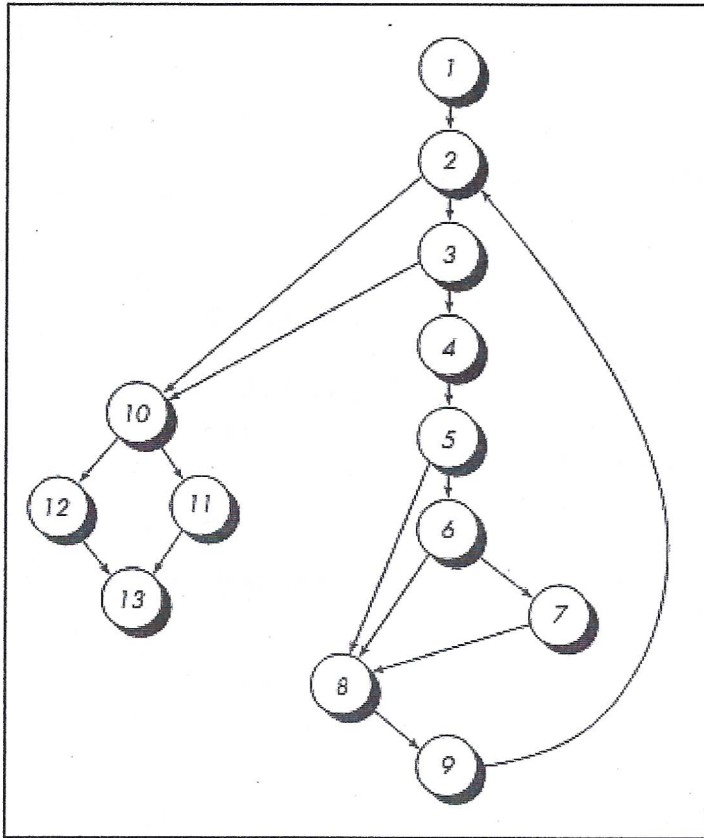
14

1. Explain SRS, its need and structure of SRS document.
2. Write a short note on Interaction Diagrams- Sequence and Collaboration with examples (diagrams).
3. Explain Use Case Diagram. Draw a Use Case Diagram for Student Management System.

Q3. Answer the following (Any 2 out of 3)

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1. Describe COCOMO-II in brief.
2. Explain in short: Testing Principles, Levels of Testing, Test plan and Test oracles.
3. Explain: Cyclomatic complexity. Find the Cyclomatic Complexity of the following figure using all 3 ways.



Q4. Answer the following in two or few lines (Any 4 out of 6)

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1. What are the attributes of Good Software?
2. Give the full form of:
 - a) CBSE
 - b) COTS
 - c) CASE
 - d) RUP
3. Define Coupling and Cohesion.
4. Draw the diagram of RE Process.
5. Which are the 3 major categories of Software Engineering Resources?
6. Define terms measurement, metrics, indicator.