

Nov - Dec 2024

(B. Tech.) Program: Computer Engineering Scheme: IIB  
Regular Examination: TY Semester: V

Course Code: CEC502 and Course Name: Software Engineering  
Duration: 02.5 Hours

Max. Marks:60

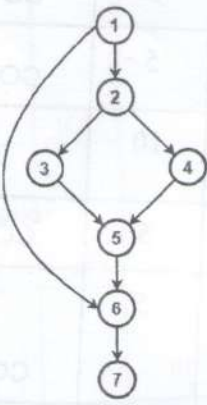
Date of Exam: 25/11/2024

Instructions:

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

| Q. No. | Question   | Max. Marks | CO      | BT level |
|--------|--|------------|---------|----------|
| Q 1    | Solve any <b>two</b> questions out of three: (05 marks each)   | 10         |         |          |
| a)     | Explain software Metrics   | 5          | CO2     | U        |
| b)     | Draw usecase diagram for online Movie ticket system  | 5          | CO1     | AP       |
| c)     | Elaaborate on Umbrella activities of software engineering  | 5          | CO1     | U        |
| Q 2    | Solve any <b>two</b> questions out of three: (05 marks each)   | 10         |         |          |
| a)     | Describe design principles   | 5          | CO3     | U        |
| b)     | What is DFD ? Draw DFD at level 0 for university management system   | 5          | CO1     | AP       |
| c)     | Explain types of Maintenance in detail   | 5          | CO5,CO6 | U        |
| Q.3    | Solve any <b>two</b> questions out of three. (10 marks each)   | 20         |         |          |
| a)     | What is Scheduling and tracking? Explain it with the help of any system.   | 10         | CO2     | AP       |
| b)     | Suppose you want to develop a word processing and editing software, which software process model is best suited for above application? Justify your answer by explaining the model in detail | 10         | CO1     | U        |
| c)     | Define cohesion & Coupling. Describe the types of Cohesion in detail   | 10         | CO3     | U        |

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| Q.4 | Solve any <b>two</b> questions out of three. (10 marks each)   | 20 |         |    |
| a)  | What is the role of SCM in software development? Explain SCM process in detail.  | 10 | CO5,CO6 | U  |
| b)  | Define Risk. What are the different categories of risk? Explain RMMM plan with suitable example  | 10 | CO5,CO6 | AP |
| c)  | What is cyclomatic complexity? How it is calculated? Calculate cyclomatic complexity for the given flow graph.<br><br> <p>Control Flow Graph</p> | 10 | CO4     | AP |

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