Code No: F-13771/N/AICTE

FACULTY OF ENGINEERING

B.E. (CSE/CME/AI&DS) V - Semester (AICTE) (Main & Backlog) (New) Examination, February/ March 2024

Subject: Software Engineering

Time: 3 Hours **Max. Marks: 70**

Note: (i) First question is compulsory and answer any four questions from the remaining six questions. Each question carries 14 Marks.
(ii) Answer to each question must be written at one place only and in the same order as they occur in the question paper.
(iii) Missing data, if any, may be suitably assumed.

1. a) Justify the need for Process Framework.
   b) What is Business process engineering?
   c) Differentiate Cohesion and Coupling.
   d) Describe a software component.
   e) List the various metrics for maintenance.
   f) How are Product and Process related?
   g) What are Coding Patterns?

2. a) Discuss about CMM in detail.
   b) Explain about the Incremental Process.

3. a) Enumerate the Construction Principles.
   b) What happens during the Elaboration task of requirements engineering?

4. a) Discuss in detail about Behavioural Modelling.
   b) Demonstrate the steps in building use-cases diagram with a suitable example.

5. a) Illustrate and explain about the Data-Flow Architectural Style.
   b) Explain the User Interface Design Process.

6. a) What are the Test strategies for OO software?
   b) Discuss about Black-box testing.

7. a) Explain about Specialized Process Model.
   b) Write about ISO 9000 Quality Standards.

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