

B.Sc.-III (Information Technology) (CBCS Pattern) Semester - VI  
**UBITT603.4 / 005 - Paper-III (Elective-IV) : Software Engineering**

P. Pages : 2

Time : Three Hours



**GUG/S/23/13318**

Max. Marks : 40

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw well labelled diagram wherever necessary.  
3. Avoid vague answers.

**Either:**

1. a) Discuss different software myths in details. 4  
b) Discuss the term the evolving Role of software. 4

**OR**

- c) Explain the layered technology of software engineering. 4  
d) Explain the term- 4  
i) The Capability Maturity Model Integration (CMMI).

**Either:**

2. a) Explain waterfall model in detail. 4  
b) Explain the term- 4  
i) User requirement  
ii) System requirement

**OR**

- c) Explain evolutionary process model in detail. 4  
d) Write a note on Feasibility studies. 4

**Either:**

3. a) Write note on software Architecture. 4  
b) Explain the following- 4  
i) Data models  
ii) Context model

**OR**

- c) Discuss Requirement Validation in detail. 4  
d) Explain the terms- 4  
i) Design Process  
ii) Architectural Design.

**Either:**

- |           |    |                           |          |
|-----------|----|---------------------------|----------|
| <b>4.</b> | a) | What is Software Testing. | <b>4</b> |
|           | b) | Explain-                  | <b>4</b> |
|           |    | i) Black Box Testing      |          |
|           |    | ii) White Box Testing     |          |

**OR**

- |           |    |  |          |
|-----------|----|--|----------|
|           | c) | State & Explain different approaches for software testing. | <b>4</b> |
|           | d) | Write a note on-   | <b>4</b> |
|           |    | i) Software Quality  |          |
|           |    | ii) Metrics  |          |
| <b>5.</b> |    | <b>All questions are compulsory.</b>                       |          |
|           | a) | What is Process Assessment?                                | <b>2</b> |
|           | b) | Explain the term requirement management?                   | <b>2</b> |
|           | c) | Explain different design concepts.                         | <b>2</b> |
|           | d) | Write a note on software measurement.                      | <b>2</b> |

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