

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

P. Pages : 2

Time : Three Hours



GUG/S/25/13318

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 and write specific & relevant answers to questions.

Either :

1. a) How does the role of software evolved over time? Explain. 4
b) Describe capability maturity model integration in detail. 4

OR

- c) Explain common software myths in detail. 4
d) Describe layers of software engineering in detail. 4

Either :

2. a) List the qualities and problem with SRS? Explain. 4
b) What do you mean by feasibility study? Explain it's types. 4

OR

- c) Describe Evolutionary process model in detail. 4
d) Explain the incremental process model in detail. 4

Either :

3. a) Discuss common stages of the engineering design process. 4
b) Explain following 4

- i) Context model
ii) Data model.

OR

- c) Describe architectural design in software engineering. 4
d) Explain design quality & design process in detail. 4

Either :

4. a) Explain strategic approach to software testing in detail. 4
b) Describe metrics for software quality in detail. 4

OR

- c) Write a note on – **4**
 - i) Black box testing.
 - ii) White box testing.
 - d) Explain metrics for analysis model. **4**
- 5.** Solve all the questions.
- a) Write a short note on process Assessment. **2**
 - b) Explain requirements of validation in brief. **2**
 - c) Write a note on context models. **2**
 - d) Explain software quality in brief. **2**
