

M.Sc. - I (Computer Science) (CBCS Pattern) Semester-II
PSCSCT08 - Paper-IV : Software Engineering

P. Pages : 2

Time : Three Hours



GUG/S/25/11190

Max. Marks : 80

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- Notes :
1. All the questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram wherever necessary.
 3. Avoid vague answer and write answers relevant and specific to questions only.

Either:

1. a) Explain the role of software engineering in detail. 8
- b) Give the classification of software qualities. Explain in detail. 8

OR

- c) Explain the relationship of software engineering to other area of computer science. 8
- d) Explain following in detail- 8
 - i) Representative qualities
 - ii) Measurement of quality

Either:

2. a) Explain the separation of concern and modularity in detail. 8
- b) Explain software design activity in detail. 8

OR

- c) Explain the following in detail- 8
 - i) Abstraction
 - ii) Anticipation of change
- d) Explain the Modularization Techniques in detail. 8

Either:

3. a) What do you mean by software specification? Give the classification of specification style. 8
- b) Explain in detail about symbolic execution and Debugging. 8

OR

- c) Explain following in detail. 8
- i) Operational specification
- ii) Descriptive specification
- d) Explain the different goals and requirements of verification. 8

Either:

4. a) Explain the waterfall model in detail. 8
- b) Explain different management function in detail. 8

OR

- c) Explain the spiral model in detail. 8
- d) Explain following in detail- 8
- i) Project control
- ii) Risk management

5. Attempt all the questions.
- a) Write in short history of software engineering. 4
- b) Explain in short about instrumentality. 4
- c) Write down the different uses of specification. 4
- d) Write short note on project planning. 4
