

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

P. Pages : 2

Time : Three Hours



GUG/W/24/11190

Max. Marks : 80

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

Either:

1. a) Write in detail about history of software engineering. 8
- b) What are the quality requirements in different application areas? Explain. 8

OR

- c) Explain the software Development life cycle in detail. 8
- d) Give a detailed note on classification of software qualities. 8

Either:

2. a) Explain the concept of Rigor and formality in detail. 8
- b) Write a short note on- 8
 - i) Abstraction
 - ii) Anticipation of change

OR

- c) Explain the objectives of software design activity. 8
- d) What are modularization techniques? Explain. 8

Either:

3. a) Write a detailed note on specification qualities. 8
- b) Write the goals and requirements of verification. 8

OR

- c) What is meant by verification of specification? Explain. 8
- d) Write a short note on- 8
 - i) Symbolic Execution
 - ii) Debugging

Either:

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| 4. | a) | Write a detailed note on spiral model. | 8 |
| | b) | What is project planning? Explain. | 8 |

OR

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|-----------|-----|--|----------|
| | c) | What is software production process model? Explain Transformation model. | 8 |
| | d) | Write a short note on- | 8 |
| | i) | Project control | |
| | ii) | Organization | |
| 5. | | Solve all the questions. | |
| | a) | Write a short note on measurement of quality. | 4 |
| | b) | Write in short about modularity. | 4 |
| | c) | Explain in brief operational specification. | 4 |
| | d) | Write a short note on Risk Management. | 4 |
