

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

P. Pages : 1

Time : Three Hours



GUG/W/23/11190

Max. Marks : 80

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

Either:

1. a) Explain software life cycle in detail. **8**
b) Discuss classification of software qualities in detail? **8**

OR

- c) Explain the Role of software engineering in detail? **8**
d) Discuss relationship of software engineering to other disciplines. **8**

Either:

2. a) Explain following: **8**
i) Modularity. ii) Abstraction
b) Write a detail note on Anticipation of change. **8**

OR

- c) Explain Modularization techniques in detail. **8**
d) Discuss software design activity in detail. **8**

Either:

3. a) Explain specification qualities in detail. **8**
b) Discuss Goals and requirement of verification. **8**

OR

- c) Write a note on: **8**
i) Symbolic Execution. ii) Debugging.
d) Write a detail note on operational specification. **8**

Either:

4. a) Explain spiral model in detail. **8**
b) Write a detail note on project planning. **8**

OR

- c) Explain waterfall model in detail. **8**
d) Write a note on: **8**
i) Evolutionary model. ii) Project control.

5. Solve all the questions.
a) Explain measurement of quality in brief. **4**
b) Write a short note on Rigor. **4**
c) Explain verifying software properties. **4**
d) Write a short note on Risk management. **4**
