

B.Sc. - III (CBCS Pattern) Semester-V  
**USCST09.3 - Elective-IV - Computer Science-IV (Software Engineering)**

P. Pages : 2

Time : Three Hours



**GUG/S/25/13088**

Max. Marks : 50

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

**Either :**

1. a) What do you mean by Process Patterns? Explain. 5
- b) Write and explain personal and team process models. 5

**OR**

- c) Define Software Engineering. What is the role of software in software engineering. 5
- d) What is CMMI? Explain. 5

**Either :**

2. a) What do you mean by Requirements elicitation and analysis? Explain. 5
- b) Explain waterfall model in detail. 5

**OR**

- c) Explain the requirements engineering process in detail. 5
- d) Explain in detail the requirements management. 5

**Either :**

3. a) Explain in detail behavioral models. 5
- b) Write about object models. 5

**OR**

- c) Explain in detail design quality. 5
- d) Describe the Architecture Design in detail. 5

**Either :**

4. a) Define testing. Explain white box testing. 5
- b) Explain the following terms 5
  - i) Metrics for analysis model
  - ii) Metrics for design model.

**OR**

- c) What do you mean by Black – Box Testing? Explain. **5**
- d) Write a note on – **5**
  - i) Validation Testing
  - ii) System Testing.

**5.** Attempt all questions.

- a) Write in short about personal process model. **2½**
- b) Explain in brief about system requirement. **2½**
- c) What do you mean by Data Design? Explain in short. **2½**
- d) Explain the metrics for design model. **2½**

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