

M.Tech. Computer Science & Engineering (CBCS Pattern) Semester-I
PCSS13 - Object Oriented Software Engineering

P. Pages : 1

Time : Three Hours



GUG/S/25/10942

Max. Marks : 70

- Notes :
1. Solve **any five** questions.
 2. All questions carry equal marks.
 3. Assume suitable data wherever necessary.
 4. Illustrate your answers wherever necessary with the help of neat sketches.

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| 1. | a) | What are the Ethics of software engineering that are defined in IEEE?ACM. | 7 |
| | b) | What are the reasons for overriding methods? Explain with example. | 7 |
| 2. | a) | Explain object-client server framework (OCSF). | 8 |
| | b) | Draw and explain sequence diagram and collaboration diagram for Employee registration system and explain it. | 6 |
| 3. | a) | Explain Analysis activities from use cases to objects. | 7 |
| | b) | Write short note on Object Constraint Language. | 7 |
| 4. | a) | Discuss issues to be considered while creating generalization. | 10 |
| | b) | Write brief note on object constraint language. | 4 |
| 5. | a) | Write short notes on domain analysis document for household alarm system. | 7 |
| | b) | What is requirement? Discuss in detail functional and non functional requirements. | 7 |
| 6. | a) | Explain about object oriented testing strategies in detail. | 10 |
| | b) | Sketch an example to explain state diagram. | 4 |
| 7. | a) | How object is defined in object oriented database system and how query can be applied on it? Explain with example. | 7 |
| | b) | Explain design pattern and architectural pattern. | 7 |
| 8. | | Write short note on: | 14 |
| | i) | Software development life cycle. | |
| | ii) | State based Testing. | |
