

OLE-3232

**B. Tech. 5th Semester (CSE) (Elective - I)
Examination – April, 2021**

SOFTWARE ENGINEERING

Paper : PEC-CSE-311-G

Time : Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. Explain the following :

- (a) Software Crisis
- (b) Control hierarchy
- (c) Structural partitioning
- (d) Transform flow

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- (e) Reverse engineering
 - (f) Software Quality concepts

UNIT – I

2. What are software life cycle models ? Also explain software process and project size estimation metrics in project planning.
3. Explain the following :
 - (a) COCOMO model
 - (b) Project scheduling and tracking

UNIT – II

4. Explain the following :
 - (a) Software Requirements Specification (SRS)
 - (b) Data Modeling
 - (c) Data flow diagrams
5. Explain the following :
 - (a) Cohesion v/s Coupling
 - (b) Software Design
 - (c) Creating entity-relationship diagram

UNIT – III

6. What is Software Testing ? Also explain levels of testing-Unit, Integration and System testing.
7. Explain the following in detail :
 - (a) Black Box Testing
 - (b) Forward Engineering
 - (c) Debugging

UNIT – IV

8. What do you mean by Software Quality Assurance (SQA) ? Explain The ISO 9000 Quality standards in detail.
 9. What do you mean by software reliability ? Also explain measures of reliability and availability.
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