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B. Tech. EXAMINATION, 2023

(Fifth Semester)

(C. Scheme) (Main & Re-appear)

(CSE)

CSE309C

SOFTWARE ENGINEERING

Time : 3 *Hours*] [*Maximum Marks :* 75

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

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit IV

7. Show why and how software metrics can improve the software engineering process ? Enumerate the effect of metrics on software productivity. **15**

8. What do you mean by software re-engineering ? What are its advantages ? Differentiate between restructuring and re-engineering. **15**

Unit I

1. (i) Define the term software engineering. Is it an art craft or a science ? Describe briefly. **7**

(ii) Briefly discuss the Spiral software development model. Be specific. **8**

2. (i) What do you mean by aspect oriented programming ? Write any *four* characteristics of this approach. **7**

(ii) List the main aims of requirement engineering. Describe its *four* sub-processes. **8**

Unit II

3. (i) List the features of a good user interface for a software. **8**

(ii) Differentiate between functional and object oriented approaches for software development. **7**

4. (i) Give examples of five real life situations where customer and end users are the same. List *three* in which they are different. **10**

(ii) Write any *five* advantages offered by structural charts to the software designers. **5**

Unit III

5. (i) Why do we need test drivers and test stubs ? Differentiate between alpha and beta testing. **7**

(ii) List and explain two structural or white box testing techniques. **8**

6. Define Acceptance testing. Write *three* important types of acceptance testing techniques. **15**