SE324

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S.E. Computer (Sem-III) (Revised Course 2016-2017)
EXAMINATION NOV/DEC 2019
Software Engineering

[Duration : Three Hours] **[Total Marks : 100]**

Part A

Note: Answer any two questions from the following

1. a) Discuss the following phases of SDLC: **6**
   i) Specification Phase
   ii) Design Phase
   iii) Implementation Phase

   b) List and explain various impediments of reuse of software. **6**

   c) Explain in detail the "Classical Chief Programmer" team approach. Discuss its merits and demerits. Support your answer with a neat diagram. **8**

2. a) Give a detailed account of comparison of the following life cycle models **8**
   i) Waterfall Model
   ii) Rapid Prototype Model
   iii) Spiral Model

   b) Describe the purpose of use case diagram. When is include and extend relationship used? Create a use case diagram for a library system. State your assumptions. **7**

   c) What is the effect of introduction of CASE tools within organizations of low maturity? Discuss. **5**

3 a) Provide and discuss details of documentation of each phases in SDLC. **8**
   b) List KPAs of CMM Level 2, 3, 4. Discuss CMM in detail. **6**
   c) What is the influence of cohesion and coupling on maintenance? Discuss. **6**

Part B

Note: Answer any two questions from the following

4. a) List down the differences between walk through and inspection. Discuss. **6**
   b) What do you mean by Data Flow Analysis? Explain with a suitable example. **6**
   c) List 14 technical complexity factors of function point computation. Explain computation of function point. **8**

5. a) Give a detailed account of good programming practice. State its significance. **7**
   b) Explain features of Intermediate COCOMO. Give its merits. **7**

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c) Discuss the metrics and challenges of Classical Analysis. **6**

6. a) List and discuss various problems associated with the use of Lines of Codes (LOC) for cost estimation. **8**
   b) What are defect reports? Explain the use of defect reports in management of post-delivery maintenance. **6**
   c) Explain the differences between Black Box testing and white box testing. **6**

Part C

Note: Answer any 01 Question from the following.

7. a) Explain Open Source Life Cycle Models. **6**
   b) Write a note on Data encapsulation and development. **6**
   c) What are test cases? Explain the benefits of using test cases. **8**

8) Write short notes on any 4 topics **4x5=20**
   1) Retirement Phase
   2) Relationship in Class Diagrams
   3) Software Quality Assurance
   4) Reverse Engineering
   5) Portability