

II B. Tech II Semester Regular Examinations, April - 2018
SOFTWARE ENGINEERING
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**
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PART -A

1. a) What is inception phase? Explain. (3M)
- b) What are desirable attributes of a good system analyst? Explain. (3M)
- c) Give an overview of SA/SD methodology. (2M)
- d) Why design test cases? (2M)
- e) What is ISO 9000 certification? (2M)
- f) What is the current state of reuse? (2M)

PART -B

2. a) What are specialized process models? Explain in detail. (7M)
- b) Explain about the unique nature of WebApps. (7M)
3. a) Discuss in detail about important categories of customer requirements. (7M)
- b) Explain about classification of cohesiveness. (7M)
4. a) What are various types of user interface? Explain. (7M)
- b) Explain in detail about context diagram. (7M)
5. a) Describe McCabe's cyclomatic complexity metric. (7M)
- b) Explain in detail about code review. (7M)
6. a) Discuss about SEI capability maturity model. (7M)
- b) What is CASE? Explain CASE environment. (7M)
7. a) Define software maintenance. Explain about software reverse engineering. (7M)
- b) What is software reuse? Explain reuse at organizational level. (7M)



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**PART -A**

1. a) What is construction phase? Explain. (3M)
- b) What are techniques for representing complex logic? (3M)
- c) Explain design review. (2M)
- d) What is smoke testing? (2M)
- e) Why get ISO 9000 certification? (2M)
- f) Explain estimation of maintenance cost. (2M)

**PART -B**

2. a) Discuss about evolutionary process models. (7M)
- b) Explain about the software process in detail. (7M)
3. a) How to identify and document functional requirements? Explain. (7M)
- b) How to characterize a good software design? Explain. (7M)
4. a) Write basic concepts of basic interface design. (7M)
- b) Explain in detail about data flow diagrams with examples. (7M)
5. a) What is performance testing? Explain in detail. (7M)
- b) Describe boundary-value analysis. (7M)
6. a) Explain about reliability metrics of software products. (7M)
- b) Describe CASE support in software life cycle. (7M)
7. a) Explain in detail about software reverse engineering. (7M)
- b) What are approaches of reuse? Explain. (7M)



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**PART -A**

1. a) What is transaction phase? Explain. (3M)
- b) What are attributes of bad SRS documents? (3M)
- c) What are various types of widgets? Explain. (2M)
- d) Define clean room testing. (2M)
- e) What are benefits of CASE? (2M)
- f) What are characteristics of software evolution? Explain. (2M)

**PART -B**

2. a) Write a template for describing a process pattern. (7M)
- b) What are general principles of software engineering? Explain. (7M)
3. a) Explain in detail about formal system specification. (7M)
- b) Discuss about object oriented design. (7M)
4. a) What are fundamentals of component-based GUI? Explain. (7M)
- b) Explain about level 1 DFD with example. (7M)
5. a) Discuss about software documentation. (7M)
- b) Write basic concepts of white-box testing. (7M)
6. a) What are characteristics of CASE tools? Explain. (7M)
- b) Explain about software quality management system. (7M)
7. a) What can be reused? What are basic issues in any reuse program? (7M)
- b) What are software maintenance process models? Explain. (7M)



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-B)

PART -A

1. a) What is elaboration phase? Explain. (3M)
- b) Explain classification of coupling. (3M)
- c) Discuss about detailed design. (2M)
- d) What is a suitable unit for testing object-oriented programs? (2M)
- e) Write steps in statistical testing. (2M)
- f) Define software maintenance. (2M)

PART -B

2. a) Explain about personal and team process models. (7M)
- b) What is software? Explain about software myths in detail. (7M)
3. a) Explain about organization of SRS document. (7M)
- b) Give an overview of the design process. (7M)
4. a) Discuss about menu-based interface. (7M)
- b) Explain in detail about transformation of a DFD model into structure chart. (7M)
5. a) Discuss in detail about black-box testing. (7M)
- b) What are program analysis tools? Explain. (7M)
6. a) Explain about personal software process in detail. (7M)
- b) Briefly explain about computer aided software engineering. (7M)
7. a) What are characteristics of software maintenance? Explain. (7M)
- b) Explain about reuse at organizational level. (7M)

