

Code No: R1622051

R16**SET - 1****II B. Tech II Semester Regular/Supplementary Examinations, April/May - 2019****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 meant by Software Myths?
- b) Differentiate between Product and Process.
- c) State few examples about Code Review.
- d) What is meant by Debugging? How it is different from execution.
- e) What is meant by System Testing?
- f) What is meant by Program Analysis Tool.

**PART -B**

2. a) What is meant by software Engineering? Write the characteristics of good software.
- b) Explain the advantages of Spiral Model?
3. a) What is meant by software Design? Explain the traditional design approach?
- b) What are the merits of object-oriented design approach?
4. a) What is meant by software product? Give an example.
- b) How process model help to develop correct and robust software products.
5. a) Why prototype is required in software development?
- b) Write the properties of a good SRS document?
6. a) Differentiate between structured design and detailed design?
- b) What is DFD? Explain different types of DFD?
7. a) What is meant by cohesion? Explain seven different types of cohesion.
- b) Explain the properties of software quality management system



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**R16****SET - 2****II B. Tech II Semester Regular/Supplementary Examinations, April/May - 2019****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) Define Software Engineering?
- b) Differentiate between student software and industrial software.
- c) What is meant by cohesion and coupling.
- d) Differentiate between structure analysis and system analysis.
- e) What is meant by Software Quality management?
- f) What are parameters required for software Quality?

PART -B

2. a) What is software Life cycle model? Explain.
- b) Explain merits and Demerits of different software life cycle models?
3. a) Explain different types of Software Design?
- b) Compare software design approaches with examples.
4. a) What is meant by prototype? Explain with diagram.
- b) Explain the importance of SRS document?
5. a) What is meant by software testing? Is Debugging and testing similar? Justify.
- b) Explain modularization in software engineering?
6. a) What is meant by coupling? Explain five levels of coupling.
- b) Write about structure design.
7. a) Explain different testing methods?
- b) Write about software planning.

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R16**SET - 3****II B. Tech II Semester Regular/Supplementary Examinations, April/May - 2019****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**
~~~~~**PART -A**

1. a) What is meant by Software Metrics?
- b) Write about software Reliability.
- c) What is software maintenance?
- d) What is meant by unit testing?
- e) What are parameters to measure software quality?
- f) What are test cases?

**PART -B**

2. a) Explain water fall model with a diagram.
- b) Justify why requirements gathering and analysis is important.
3. a) What are different testing parameters? Explain.
- b) Explain about Risk Assessment and control?
4. a) What is meant by project monitoring? Explain the advantages of it.
- b) Explain the role of software architecture?
5. a) Explain different architecture views?
- b) How UML diagrams are useful in software Engineering.
6. a) Differentiate between white box testing and black box testing.
- b) What is meant by code inspection? How it is used in self reviews.
7. a) Write about quality planning and project planning.
- b) Explain about planning and budgeting



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**R16****SET - 4****II B. Tech II Semester Regular/Supplementary Examinations, April/May - 2019****SOFTWARE ENGINEERING**

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

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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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1. a) What is meant by software process?
- b) Mention the importance of testing.
- c) What is the difference between test plan and test case?
- d) Write characteristics of good software.
- e) Differentiate between unit testing and software testing.
- f) What is meant DFD?

PART -B

2. a) Explain the advantage and disadvantages of waterfall model?
- b) Briefly describe about overview of the design process.
3. a) Explain effort estimation, both the approaches in detail.
- b) How ER diagrams and DFD help in Software Design.
4. a) Differentiate between validation and verification.
- b) What is meant by project tracking? Explain about its importance.
5. a) Differentiate between component and connector view?
- b) What is meant by pair programming? How it is used in coding?
6. a) What are different software metrics? Give details.
- b) What is pair-wise testing? Where can be it is used?
7. a) What are different levels of testing? Explain.
- b) Explain refactoring in coding.