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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Code No: R1622051 **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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Code No: R1622051 **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**

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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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Code No: R1622051 **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

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 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.

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