

Code No: RT32051

R13

SET - 1

III B. Tech II Semester Regular Examinations, April - 2017
SOFTWARE ENGINEERING
(Computer Science 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. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

PART -A

- | | | |
|---|--|------|
| 1 | a) Describe the Characteristics of Software. | [4M] |
| | b) Write the distinct steps in requirements engineering process? | [4M] |
| | c) Explain the design steps in transaction mapping. | [4M] |
| | d) Why testing is important with respect to software? | [4M] |
| | e) How do you estimate time required for a software development project? | [3M] |
| | f) Distinguish between verification and validation. | [3M] |

PART -B

- | | | |
|---|--|-------|
| 2 | Elaborate on evolution of software. Give the comparison of software and software system product | [16M] |
| 3 | a) Explain the software requirement analysis and modeling. | [8M] |
| | b) Narrate the importance of software specification of requirements. | [8M] |
| 4 | What is transform mapping? Explain the process with an illustration. Describe its strength and weakness. | [16M] |
| 5 | Discuss how the testing models may be used together to test a program schedule. | [16M] |
| 6 | Explain the need for software measures and describe various metrics. | [16M] |
| 7 | a) Describe software maintenance activities and explain the re-engineering. | [10M] |
| | b) What is the necessity of quality assurance in software development? | [6M] |

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SET - 2

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Time: 3 hours

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- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

PART -A

- | | | | |
|---|----|---|------|
| 1 | a) | What are the challenges in software? | [4M] |
| | b) | What are the non-functional requirements of software? | [4M] |
| | c) | Explain the design steps of the transform mapping. | [4M] |
| | d) | State the objectives and guidelines for debugging. | [4M] |
| | e) | How do you estimate cost required for a software development project? | [3M] |
| | f) | What are the types of software maintenance? | [3M] |

PART -B

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|---|----|---|-------|
| 2 | | Define software engineering and Give a generic view of Software Engineering. | [16M] |
| 3 | | Explain the ways and means for collecting the software requirements and how are they organized and represented? | [16M] |
| 4 | | What are the characteristics of a good design? Describe different types of coupling and cohesion. How design evaluation is performed? | [16M] |
| 5 | | What is black box testing? Is it necessary to perform this? Explain various test activities. | [16M] |
| 6 | | Explain the need for software measures and describe various metrics. | [16M] |
| 7 | a) | Discuss the concept of software maintenance process. | [8M] |
| | b) | What is meant by SQA? Discuss in detail SQA activities. | [8M] |

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2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

PART -A

- | | | |
|---|--|------|
| 1 | a) Describe the Components of Software. | [4M] |
| | b) Write the distinct steps in requirements engineering process? | [4M] |
| | c) Explain the steps in OOAD. | [4M] |
| | d) How to derive a test plan? | [4M] |
| | e) How effort is measured? explain | [3M] |
| | f) What are the types of reengineering activities? | [3M] |

PART -B

- | | | |
|---|---|-------|
| 2 | Compare the incremental model and the spiral model. | [16M] |
| 3 | Describe various prototyping techniques and object oriented analysis and modeling principles. | [16M] |
| 4 | What is transform mapping? Explain the process with an illustration. What is its strength and weakness? | [16M] |
| 5 | Explain black box testing methods and its advantages and disadvantages. | [16M] |
| 6 | Explain in detail about COCOMO model. | [16M] |
| 7 | a) What is software maintenance? How to control maintenance cost? | [8M] |
| | b) What is meant by software quality? Give an overview of software quality factor. | [8M] |

III B. Tech I Semester Regular Examinations, April - 2017

SOFTWARE ENGINEERING

(Computer Science Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)

2. Answering the question in **Part-A** is compulsory3. Answer any **THREE** Questions from **Part-B**

PART -A

- | | | | |
|---|----|---|------|
| 1 | a) | What are the advantages of software over hard ware? | [4M] |
| | b) | Distinguish between expected requirements and excited requirements | [4M] |
| | c) | Give the comparison of transaction mapping and transform mapping | [4M] |
| | d) | State the objectives and guidelines for debugging. | [4M] |
| | e) | How do you estimate effort required for a software development project? | [3M] |
| | f) | Distinguish between bug and error. | [3M] |

PART -B

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|---|----|---|-------|
| 2 | a) | Define software. List and explain about the elements of a software process. | [8M] |
| | b) | With suitable illustration explain SPIRAL model . | [8M] |
| 3 | | Describe various prototyping techniques and discuss on object oriented analysis and modeling. | [16M] |
| 4 | | Explain the importance of user interface design in sale of software. | [16M] |
| 5 | | What are the various testing strategies to software testing? Discuss them briefly. | [16M] |
| 6 | | Explain the need for software measures and describe various metrics. | [16M] |
| 7 | a) | Discuss the concept of software maintenance process. | [8M] |
| | b) | What is meant by SQA? Discuss in detail SQA activities. | [8M] |
