

III B. Tech II Semester Regular Examinations, April - 2016
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. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

PART -A

- | | | |
|-------|---|----|
| 1. a) | What is meant by Software and Software Engineering? | 3M |
| b) | Write short note on object oriented analysis. | 4M |
| c) | Explain design methodologies. | 4M |
| d) | Explain testing fundamentals. | 3M |
| e) | What are software metrics and measurements? | 4M |
| f) | Explain briefly about reengineering activities. | 4M |

PART -B

- | | | |
|-------|---|----|
| 2. a) | Explain briefly Software development lifecycle. | 8M |
| b) | Explain about evaluation of software engineering methodologies. | 8M |
| 3. a) | Write short note on Structured analysis. | 8M |
| b) | Explain briefly about requirements validation. | 8M |
| 4. a) | Briefly Explain Software design process. | 8M |
| b) | Write a short on structured design methodology. | 8M |
| 5. a) | Explain code verification. | 8M |
| b) | Write short note on regression testing. | 8M |
| 6. a) | Briefly explain software configuration management. | 8M |
| b) | Explain briefly about project size estimation. | 8M |
| 7. a) | What are software quality factors? | 8M |
| b) | What is software maintenance? Explain in detail. | 8M |



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PART -A

- | | | |
|----|--|----|
| 1. | a) What is software process? Explain process classification. | 3M |
| | b) Write short note on requirements specification. | 3M |
| | c) Explain characteristics of good software design. | 4M |
| | d) Explain briefly about debugging approaches. | 4M |
| | e) Briefly explain project planning activity. | 4M |
| | f) What are the maintenance process models? | 4M |

PART -B

- | | | |
|----|--|----|
| 2. | a) Explain applicability and advantages of software processes. | 8M |
| | b) What are the challenges of software engineering? | 8M |
| 3. | a) What are software requirements? How to analysis the requirements? | 8M |
| | b) Explain briefly about Requirements management. | 8M |
| 4. | a) What are the design principles? Explain in detail. | 8M |
| | b) Explain about structured design methodology. | 8M |
| 5. | a) Explain about white box testing? | 8M |
| | b) What are the principles of coding? | 8M |
| 6. | a) What are effort estimation techniques? | 8M |
| | b) Explain briefly about project management in detail. | 8M |
| 7. | a) Write a short note on capability maturity model. | 8M |
| | b) Briefly explain software reuse. | 8M |



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PART -A

- | | |
|---|----|
| 1. a) Explain briefly about software crisis. | 4M |
| b) Write short note on requirement management process. | 3M |
| c) What are the design principles of software? | 4M |
| d) Explain black box testing. | 3M |
| e) Explain briefly about software configuration management. | 4M |
| f) What is verification and validation? Explain in detail. | 4M |

PART -B

- | | |
|--|----|
| 2. a) Explain Software development process models. | 8M |
| b) Define software engineering. What are the challenges of software engineering? | 8M |
| 3. a) Write short note on data oriented analysis. | 8M |
| b) Explain briefly about requirements validation. | 8M |
| 4. a) Write short note on structured design methodologies. | 8M |
| b) Explain the concept of transform versus transaction analysis. | 8M |
| 5. a) Explain coding documentation. | 8M |
| b) Explain about usability testing. | 8M |
| 6. a) What are essentials in project management? | 8M |
| b) Explain briefly about project size estimation. | 8M |
| 7. a) Explain the software quality assurance. | 8M |
| b) What is reengineering? Explain in detail. | 8M |



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PART -A

- | | | |
|-------|--|----|
| 1. a) | What is software? What are the development lifecycle phases? | 4M |
| b) | Explain briefly requirements elicitation. | 4M |
| c) | Write short note on modular design. | 3M |
| d) | Explain about code documentation. | 3M |
| e) | Write short note on effort estimation techniques. | 4M |
| f) | What are differences between verification and validation? | 4M |

PART -B

- | | | |
|-------|---|----|
| 2. a) | Explain about evaluation of software engineering methodologies. | 8M |
| b) | What is the use of software development process models? | 8M |
| 3. a) | Explain prototyping analysis. | 8M |
| b) | Write short note on requirement engineering process. | 8M |
| 4. a) | What are the design methodologies? | 8M |
| b) | Explain about object oriented analysis and design principle. | 8M |
| 5. a) | What are the differences between black box and white box testing? | 8M |
| b) | What are the levels of testing? Explain in detail. | 8M |
| 6. a) | What is project management? Explain in detail. | 8M |
| b) | What are software metrics and measurements? | 8M |
| 7. a) | Explain the CMM model. | 8M |
| b) | What are the maintenance process models? | 8M |

