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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

July / August 2014 Supplementary Examinations

Course: Software Engineering

Course Code: 10CI6GCSWE

Duration : 3 hours

Max Marks: 100

Date: 30.07.2014

Instructions: Answer five full questions choosing one from each unit.

UNIT 1

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| 1 a. | Explain the four important attributes which all software products should have. | 04 |
| b. | Explain the Structure of Requirements document proposed by IEEE. | 08 |
| c. | What is Legacy system. Explain with a neat diagram Legacy System Components | 08 |

OR

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|------|---|----|
| 2 a. | Why requirements need to be validated. Explain the checks made in requirement Validation | 07 |
| b. | List the categories of Non-functional requirements and explain each in detail. | 08 |
| c. | List and explain the professional and ethical responsibility which every software engineer should have. | 05 |

UNIT 2

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|------|---|----|
| 3 a. | What is a state machine model? Draw the state machine model for microwave oven. | 05 |
| b. | Explain object aggregation. | 05 |
| c. | What is risk in software engineering? Explain the risk management process with diagram. | 10 |

UNIT 3

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|------|---|----|
| 4 a. | Draw an architecture of a film and picture library system | 10 |
| b. | Explain two event driven control models | 10 |

UNIT 4

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| 5 a. | Explain the rapid application development in detail. | 10 |
| b. | With a block diagram, explain the activities of re-engineering process. | 10 |

OR

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| 6 | a. | Explain the clean-room development process with a block diagram. | 10 |
| | b. | Explain any two system testing approaches. | 10 |

UNIT 5

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| 7 | a. | Write short notes on | 20 |
| | | A) Socio-technical systems | |
| | | B) Project Scheduling | |
| | | C) Modular Decomposition styles | |
| | | D) Rapid Application Development | |
