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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

July / August 2017 Supplementary Semester Examinations

Course: Software Engineering
Course Code: 16CS5DCSWE

Duration: **3 hrs**
Max Marks: **100**

Date: 29.07.2017

Instructions: 1. Answer any five full questions choosing one from each unit.
2. Assume missing data (if any) suitably

UNIT 1

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|----------|---|----|
| 1 | a) Discuss the evolutionary development process model in detail. Illustrate its disadvantages. | 07 |
| | b) Explain the requirement engineering process in detail. Outline the difficulties in requirement elicitation? | 08 |
| | c) Using your own knowledge of how an ATM card is used, develop a set of use cases that could be used to derive the requirements for an ATM system. | 05 |

UNIT 2

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|----------|---|----|
| 2 | a) Explain why it may be necessary to design the system architecture before the specifications are written. | 05 |
| | b) Discuss the Client-Server architecture in detail. Explain its relative merits and demerits. | 07 |
| | c) Explain in detail the components of a typical CASE workbench. | 08 |

UNIT 3

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|----------|---|----|
| 3 | a) Describe the different paradigms for software engineering teams. | 06 |
| | b) In spite of following a right process model, having right people and great focus towards the project, project fails. Discuss the reasons for failure of the project in general. Identify the remedies you would suggest to uncover the same. | 09 |
| | c) Explain the different types of reusable software resources. | 05 |

OR

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| 4 | a) Discuss the different approaches for software decomposition. | 06 |
| | b) Illustrate the problems in estimation of projects with use case analysis | 05 |
| | c) Explain the basic principles of software project scheduling. | 09 |

UNIT 4

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|----------|---|----|
| 5 | a) Describe the strategic options for legacy system evolution. | 06 |
| | b) Explain how agile process differs from traditional process models. | 06 |
| | c) Explain the different stages in automated static analysis. | 08 |

OR

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| 6 | a) Explain the need for test automation. What are the different tools used in test automation? | 10 |
| | b) Discuss the various approaches to design the test cases in detail. | 10 |

UNIT 5

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|----------|-----------|---|----|
| 7 | a) | Explain the possible strategies for risk mitigation. | 10 |
| | b) | Explain the four P's in software development in detail. | 10 |
