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| KONGU ENGINEERING COLLEGE, PERUNDURAI - 638 060 |
| CONTINUOUS ASSESSMENT TEST – I |
| (Regulations2020) |

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| Month and Year | : | September 2022 | Roll Number | : |  |
| Programme | : | B.Tech. | Date | : | 20.09.2022 |
| Branch | : | IT | Time | : | 10.00 am to 12.00 pm |
| Semester | : | V | Duration | : | 02.00 Hours |
| Course Code | : | 20ITT53 | Max. Marks | : | 60 |
| Course Name | : | SOFTWARE ENGINEERING |  |  |  |

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| **PART ­- A (10 × 2 = 20 Marks)** | | | | | |
| **ANSWER ALL THE QUESTIONS** | | | | | |
|  | Write the definition for Software Engineering. | | | CO1 | K1 |
|  | List the capability levels for rating the process method. | | | CO1 | K1 |
|  | Mention the Advantages of incremental model. | | | CO1 | K2 |
|  | Identify in which phase of the software life cycle the following documents are delivered.   1. Architectural design 2. Test plan 3. Cost estimate 4. Source code document | | | CO1 | K3 |
|  | Develop at least three additional “context-free questions” that you might ask a stakeholder during inception. | | | CO2 | K3 |
|  | Infer about QFD and List the types of requirements which are identified by QFD | | | CO2 | K2 |
|  | State the seven distinct methods of Requirement Engineering process. | | | CO2 | K1 |
|  | Draw a Usecase diagram for SafeHome home security function. | | | CO2 | K2 |
|  | Tell about static modelling and give the diagrams used in static modelling. | | | CO3 | K1 |
|  | Specify the need of UML. | | | CO3 | K2 |
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| **Part – B (4 × 10 = 40 Marks)** | | | | | |
| **ANSWER ANY FOUR QUESTIONS** | | | | | |
| 11. | i) | Describe the Waterfall model. Summarize the pros and cons in the waterfall model. | (10) | CO1 | K1 |
| 12. | i) | Explain about Extreme programming with its merits and demerits. | (5) | CO1 | K1 |
|  | ii) | Describe about Spiral Process Model. | (5) | CO1 | K1 |
| 13. | i) | Differentiate Validation and Verification in Requirement phase. | (3) | CO2 | K2 |
|  | ii) | What is requirement engineering? Illustrate the eliciting requirements. | (7) | CO2 | K2 |
| 14. | i) | Develop a complete use-case for Searching for books (on a specific topic) using an on-line bookstore. | (6) | CO2 | K3 |
|  | ii) | Elaborate Requirement Analysis model and explain its various elements. | (4) | CO2 | K3 |
| 15. | i) | Describe the software process model that you would choose for car manufacturing and justify the model. | (6) | CO1 | K3 |
|  | ii) | Differentiate between functional and non-functional requirements. | (4) | CO2 | K2 |
| 16. | i) | Explain about UML and its types. Draw a UML Class Diagram for Withdraw money from ATM machine. | (10) | CO3 | K2 |

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| Bloom’s Taxonomy Level | Remembering  (K1) | Understanding  (K2) | Applying  (K3) | Analysing  (K4) | Evaluating  (K5) | Creating  (K6) |
| Percentage | 35.00 | 40.00 | 25.00 |  |  |  |