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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** | | | | | |
|  | Mention the activities involved in software process model. | | | CO1 | K1 |
|  | State the pros and cons in waterfall model and incremental model | | | CO1 | K1 |
|  | Is it always possible to realize win-win spiral model for software? Justify | | | CO1 | K2 |
|  | If you have to develop a word processing software product, what process model will you choose? Justify your answer and examine. | | | CO1 | K3 |
|  | Indicate the risk involved in elicitation phase. | | | CO2 | K2 |
|  | Specify the prime concern of QFD in requirement analysis. | | | CO2 | K1 |
|  | List all the stake holders in the requirement phase of online train reservation system. | | | CO2 | K2 |
|  | Differentiate between validating and verification in requirement phase. | | | CO2 | K2 |
|  | Infer the need of UML. | | | CO3 | K2 |
|  | Tell about static model and dynamic model in UML modelling. | | | CO3 | K1 |
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| **Part – B (4 × 10 = 40 Marks)** | | | | | |
| **ANSWER ANY FOUR QUESTIONS** | | | | | |
| 11. |  | Compare waterfall model and spiralmodel, list the features of each model and their advantages, disadvantages and a type of application where the model is applicable. | (10) | CO1 | K2 |
| 12. | i) | Narrate about five principles of agility | (4) | CO1 | K2 |
|  | ii) | Elaborate about phase in Extreme Programming process. | (6) | CO1 | K2 |
| 13. | i) | Briefly describe the tasks involved in requirement engineering process | (7) | CO2 | K2 |
|  | ii) | Relate the Win-Win mean in the context of negotiation during requirement engineering activity. | (3) | CO2 | K2 |
| 14. |  | Develop the software requirement document for the following requirement. A coffee vending machine server coffee to customers.A customer can choose a type of coffee among a list often options,supply the amount required and served. Each coffee is prepared by adding unit of hotwater,coffee powder,milk and sugar.The recipe of each coffee is stored. | (10) | CO2 | K3 |
| 15. | i) | Discuss about specialized process model for various context. | (6) | CO1 | K2 |
|  | ii) | Elucidate the different UML diagrams. Give an example for class diagram. | (4) | CO3 | K2 |
| 16. | i) | Draw a usecase diagram for online shopping which should provide provision for registering, authenticating the customers and also for the online payment through any payment gateway as paypal etc. | (10) | CO3 | K3 |

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| Bloom’s Taxonomy Level | Remembering  (K1) | Understanding  (K2) | Applying  (K3) | Analysing  (K4) | Evaluating  (K5) | Creating  (K6) |
| Percentage | 10.00 | 62.50 | 27.50 |  |  |  |