Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec– 2017**

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| **Code :** | **14CS2042** | **Duration :** | **3hrs** |
| **Sub. Name :** | **SOFTWARE ENGINEERING** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Describe a scenario where RAD model would be applied and not the waterfall model. | CO1 | 15 |
| b. | Express product backlog and sprint backlog. | CO1 | 5 |
| (OR) | | | | |
| 2. | a. | Articulate the necessities of life cycle model and elaborate various issues of software life cycle. | CO1 | 10 |
| b. | Quote the principles of agile process model. | CO1 | 10 |
|  |  | |  |  |
| 3. | Discuss the following requirement engineering tasks. | |  |  |
|  | a. | Inception | CO1 | 10 |
|  | b. | Elicitation | CO1 | 10 |
| (OR) | | | | |
| 4. | Sketch the use case diagram for the following applications. | |  |  |
|  | a. | Bank management system. | CO1 | 10 |
|  | b. | Railway ticket reservation system. | CO1 | 10 |
|  |  |  |  |  |
| 5. | a. | Summarize different kind of architectural styles exist in software and explain in detail. | CO1 | 15 |
|  | b. | Describe CRC modeling in detail. | CO1 | 5 |
| (OR) | | | | |
| 6. | a. | Illustrate various testing strategies used for conventional software. | CO2 | 10 |
|  | b. | Name the attributes of a good quality software. | CO3 | 10 |
|  |  |  |  |  |
| 7. | a. | Predict the importance of testing. Narrate control path testing procedure in detail with a sample code. | CO2 | 10 |
|  | b. | Discover the two main activities of regression testing. | CO2 | 5 |
|  | c. | Explain black box and white box testing. | CO2 | 5 |
| (OR) | | | | |
| 8. | a. | Discriminate SCM repository and SCM auditing. | CO2 | 10 |
|  | b. | Explain the process of risk mitigation, monitoring and management. | CO2 | 10 |
|  | | **Compulsory:** |  |  |
| 9. | a. | “The proposed project for recharging mobiles developed to automate the mobile recharging process. It roots out the manual card system of recharge and introduces a new and genuine online recharge process. The online mobile recharge system is beneficial to both the admins and users. Using the online application, thiamin can add new operators, tariff plans, offers and update or modify the existing tariff plans. It helps the users in creating their account, and then recharging the mobiles phones at any time”. Suggest a process model for the above scenario and the reasons for choosing that model. | CO1 | 10 |
|  | b. | Explain the design process for the above system using the suggested process model. | CO1 | 10 |