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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

**Supplementary Examination – June – 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 software process model for a company to develop an advance version of their current software available in the market. | CO1 | 10 |
| b. | Explain spiral model and various activities involved in each phase. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Describe software life cycle. Report its stages in relation to other stages and its overall importance. | CO1 | 5 |
| b. | Sketch the use case diagram and class diagram for ATM operation. | CO2 | 15 |
| 3. | a. | Visualize the ER diagram for the following situation.“An account is a relationship between customer and bank. A customer has a name. A bank has a branch. A customer may have several accounts of different type and balance”. | CO2 | 10 |
|  | b. | Discuss aboutthe CRC modeling with an example. | CO2 | 10 |
| (OR) | | | | |
| 4. | a. | Explain in detail about data modeling. | CO3 | 10 |
|  | b. | Define dependency relationship in UML modeling. | CO2 | 5 |
|  | c. | Summarise the concept of modularity in design engineering process. | CO3 | 5 |
| 5. | a. | List the core steps involved in the six sigma methodology. | CO5 | 10 |
|  | b. | Illustrate the guidelines for conducting the formal technical review. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | State the significance of software architecture. | CO3 | 10 |
|  | b. | Dicover the golden rules to be followed by the designer while designing the interface. | CO5 | 10 |
| 7. | Write short notes on the following: | |  |  |
| a. | Basis Path Testing | CO4 | 10 |
| b. | Control Structure Testing | CO4 | 5 |
| c. | Boundary Value Analysis | CO4 | 5 |
| (OR) | | | | |
| 8. | a. | Enumerate ISO 90001:2000 quality standard. | CO4 | 10 |
|  | b. | Assessthe risk management and the steps in it with an example. | CO5 | 10 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Describe the principles to be followed in Agile. | CO1 | 10 |
|  | b. | Correlate how does scrum fit with agile. | CO2 | 10 |

ALL THE BEST