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 – April/May– 2017**

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. | a. | Write about the Golden Rules that is being set for a User Interface Design. | CO5 | 10 |
| b. | Illustrate the different methods that should be accomplished during Formal Technical Reviews. | CO3 | 10 |
| (OR) | | | | |
| 2. |  | As a designer, how will you derive a complete architectural structure for the software to be developed? Examine each architectural design tasks in detail. | CO4 | 20 |
| 3. |  | All software process models can accommodate the generic framework activities, but each applies a different emphasis to these activities and defines a process flow that invokes each framework activity in a different manner. Write about the different types of prescriptive process models that achieve coordination and coherence in software work? | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | You have been appointed as a project manager for a major software product company. Your job is to manage the next generation version of widely used word-processing software. Because competition is  intense, tight deadlines have been established and announced. What software process model would you choose? Justify your answers with neat diagram. | CO5 | 15 |
|  | b. | Explain the key activities of extreme programming with neat diagram. | CO1 | 5 |
| 5. |  | A set of fundamental software design concepts has evolved over the history of software engineering. Although the degree of interest in each concept has varied over the years, each has stood the test of time. Explain the different types of Design Concepts of a software designer with all its related attributes? | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Describe the two common evolutionary prescriptive process models that have been explicitly designed to accommodate a product that evolves over time. | CO4 | 20 |
| 7. | a. | Explain in detail on the elements of Software Quality Assurance? | CO1 | 10 |
|  | b. | Discuss the concepts behind Black Box Testing with its different types. | CO3 | 10 |
| (OR) | | | | |
| 8. |  | Explain in detail on the Software Configuration Management based on its scenario, elements and other functions elements in it? | CO2 | 20 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Draw the use case diagram and sequence diagram for lending e-book from online library portal. | CO3 | 15 |
|  | b. | Discuss the various principles of agile process. | CO1 | 5 |

ALL THE BEST