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 :** | **14CS3041** | **Duration :** | **3hrs** |
| **Sub. Name :** | **SOFTWARE METRICS AND QUALITY MANAGEMENT** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. |  | Point out the various scopes of software metrics. Explain some degree of software measurement involved. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | We commonly use ordinal measurements. For example, we can use an ordinal scale or rank the understandability of programs as trivial, simple, moderate, complex, or incomprehensible. For such of the two other common measurement scale types, give an example of a useful software measure of that type. State exactly which software entity is being measured and which attribute. State whether the entity is a product, process or resource. | CO2 | 20 |
| 3. | a. | Suppose that a software producer considers software quality to consist of a number of attributes, including realiabilty, maintainability, and usability. Construct a simple GQM tree corresponding to the producer’s goal of improving the quality of the software. | CO2 | 10 |
|  | b. | Summarize on the methods to choose appropriate prediction systems. | CO3 | 10 |
| (OR) | | | | |
| 4. |  | Identify the three areas where size is used to normalize the measures of other attributes, to qualify the amount of reuse, and to measure attributes related to software testing. | CO3 | 20 |
| 5. | a. | Describe in detail about the problem, solution size, computational complexity. | CO2 | 10 |
|  | b. | Explain the concept of “Modeling Software Quality”. | CO2 | 10 |
| (OR) | | | | |
| 6. |  | Pictorially explain the various quality tools that are used for measure collection and metrics measure. | CO2 | 20 |
| 7. |  | Classify the methodology through which the process of configuration identification is carried out. | CO1 | 20 |
| (OR) | | | | |
| 8. |  | Give your opinion about the vendor management. Describe in detail about the theoretical approach for the process taking place. | CO2 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Describe about the impact of cultural change and management commitment towards the change in organizational culture. | CO1 | 20 |

ALL THE BEST