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

G:\logo and QP Template\logo 3 Feb 2018 final.tif

**End Semester Examination – Nov/Dec – 2018**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **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. | a. | Explain the various types of reviews and the process of documentation. | CO1 | 10 |
| b. | Describe the three major approaches for the Inhouse development. | CO2 | 10 |
| (OR) | | | | |
| 2. |  | Describe the various elements of a software quality system with an example for each. | CO3 | 20 |
|  |  |  |  |  |
| 3. | a. | Describe the classification of defects based on their various basic characteristics. | CO2 | 10 |
| b. | Illustrate the various types of quality tools with a diagram. | CO3 | 10 |
| (OR) | | | | |
| 4. |  | Explain the process through which security is enabled in the software development process. | CO1 | 20 |
|  |  |  |  |  |
| 5. | a. | Point out the special types of testing done during the software development life cycle. | CO3 | 10 |
| b. | Describe the different types of maintainance with an example. | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | Describe the various types of vendor management. | CO2 | 10 |
| b. | Illustrate with an example the process of test documentation. | CO1 | 10 |
|  |  |  |  |  |
| 7. |  | Suppose that a software producer considers software quality to consist of a number of attributes, including reliability, maintainability and usability. Consider a simple GQM tree corresponding to the producer’s goal of improving the quality of the software. | CO2 | 20 |
| (OR) | | | | |
| 8. | a. | Define a measurement scale and explain the various types of scale types with an example. | CO3 | 10 |
| b. | Explain the role of measurement in determining the best players in your favourite sport. | CO1 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Define code size. Explain the various ways through which code size is being measured. | CO2 | 20 |