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

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**End Semester Examination – Nov/Dec – 2019**

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

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Consider a web browsing client, such as Firefox, Chrome, Safari, or Explorer. Suggest some good ways to measure the quality of such a software system, from an end – user’s perspective. | CO1 | 20 |
| **(OR)** | | | | |
| 2. |  | Explain why you would not conclude that the quality of program X was twice as great as program Y if integration testing revealed program X to have twice as many faults per KLOC than program Y. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | Suppose your development team has as its goal to improve effectiveness of testing. Use the GQM approach to suggest several relevant questions and measures that will enable you to determine if you have met your goal. | CO2 | 20 |
| **(OR)** | | | | |
| 4. |  | Your company is not a software company, but it is beginning to acknowledge the role software plays in the different company products. If you were to create a company baseline for use in case studies, what variable information would you try to capture? | CO3 | 20 |
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| 5. | a. | Write in detail about the concept of object oriented structural attributes and measures. | CO3 | 10 |
| b. | Explain the concept of “No single overall software complexity measure”. | CO2 | 10 |
| **(OR)** | | | | |
| 6. |  | Identify the various elements of a software quality system and explain each with an example. | CO3 | 20 |
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| 7. |  | Describe the process through which software has been built. Give the process flow with the help of a diagram. | CO1 | 20 |
| **(OR)** | | | | |
| 8. | a. | Classify the different types of reviews. Give real time examples for each category. | CO2 | 10 |
| b. | Explain the process of test documentation and user documentation. | CO3 | 10 |
|  | | **Compulsory:** |  |  |
| 9. |  | Write in detail about the various implementation strategies involved in SQS. | CO1 | 20 |