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

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

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| **Code :** | **16CA2009** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ESSENTIALS OF 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. | What is Agility? | CO1 | 4 |
| b. | Explain the following Agile development process  i. Agility principles.  ii. Human factors. | CO2 | 6 |
| c. | Explain about Waterfall process model with a neat sketch. | CO3 | 10 |
| (OR) | | | | |
| 2. |  | Describe in detail about the following Requirements Engineering concepts.   1. Project Scope. 2. Identifying Stakeholders. 3. Asking the First Questions. | CO3 | 20 |
|  |  |  |  |  |
| 3. |  | Discuss in detail about Data-Centered and Data-Flow Architectures with a neat sketch. | CO3 | 20 |
| (OR) | | | | |
| 4. |  | Discuss in detail about designing of Class- based components. | CO2 | 20 |
|  |  |  |  |  |
| 5. | a. | Determine the concepts of framing Golden rules of User Interface Design. | CO3 | 10 |
| b. | Describe about the User Interface design steps with a neat sketch. | CO3 | 10 |
| (OR) | | | | |
| 6. |  | Justify how Informal Review Techniques helps in accessing the Software Quality. | CO3 | 20 |
|  |  |  |  |  |
| 7. | a. | Discuss the following Conventional Software Testing Strategies  i. Unit Testing.  ii. Integration Testing. | CO2 | 10 |
| b. | Discuss about any two Decomposition techniques in Project Planning. | CO2 | 10 |
| (OR) | | | | |
| 8. |  | Summarize the process involved in Software testing Strategy (Architecture) with a neat sketch. | CO3 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Explain the following Software Risks   1. Project risks 2. Technical risks 3. Business risks 4. Predictable and Unpredictable risks | CO2 | 10 |
| b. | Describe in detail about PERT and CPM in Project Scheduling tasks | CO3 | 10 |