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



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

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| **Code :** | **17CS3022** | **Duration :** | **3hrs** |
| **Sub. Name :** | **OBJECT ORIENTED 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. | Summarize the terms and concepts involved in developing software engineering. | CO1 | 10 |
| b. | Explain interaction diagrams with a relevant example. | CO3 | 10 |
| **(OR)** | | | | |
| 2. | a. | Outline technical activities associated with object-oriented software engineering. | CO2 | 10 |
| b. | Illustrate the use of case and class diagram for the First Responder Interactive Emergency Navigational Database in Friend Emergency case study. | CO3 | 10 |
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| 3. | a. | Discuss project communication objects and apply it to develop the communication scheme for Object-Oriented Workplace Laboratory (OWL) case study. | CO1 | 15 |
| b. | Explain Mapping Use Cases to Objects with Sequence Diagrams. | CO2 | 5 |
| **(OR)** | | | | |
| 4. | a. | Analyze the main analysis concepts for the SatWatch and 2BWatch case studies with relevant Unified Modelling Language (UML) diagrams. | CO3 | 10 |
| b. | Explain project organization concepts with relevant examples and diagrams. | CO5 | 10 |
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| 5. | a. | Construct the System Design Activities: From Objects to Subsystems for the ‘MyTrip: a route planning system for car drivers’ - case study. | CO6 | 15 |
| b. | Explain Specification Inheritance and Implementation Inheritance in terms of MySet case study. | CO1 | 5 |
| **(OR)** | | | | |
| 6. |  | Summarize the activities in System Design while developing a software by addressing design goals. | CO2 | 20 |
|  |  |  |  |  |
| 7. |  | Categorize the four types of transformations for mapping concepts on the Arena case study. | CO6 | 20 |
| **(OR)** | | | | |
| 8. |  | Explain the software configuration management [IEEE Std. 1042-1987] based on the same terminology as the IEEE guidelines. | CO6 | 20 |
|  | | **Compulsory**: |  |  |
| 9. |  | Compare Iterative Activity-Centered Models and Entity-Centered Models with relevant diagrams. | CO4 | 20 |