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



**End Semester Examination – Nov/Dec– 2017**

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| **Code :** | **14CS2042** | **Duration :** | **3hrs** |
| **Sub. Name :** | **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. | Sketch the software life cycle model. Briefly describe each of the stages, its relation to other stages and its overall importance. | CO1 | 15 |
| b. | List the problems faced in a project while following waterfall software process model. | CO1 | 5 |
| (OR) | | | | |
| 2. | a. | Illustrate the principles to be followed in agile. | CO1 | 10 |
| b. | Describe scrum process model and the execution steps for efficient project deployment. | CO1 | 10 |
| 3. | a. | Sketch the sequence diagram to withdraw money using a visa card. | CO1 | 10 |
|  | b. | Discuss the steps required to initiate Requirements Engineering. | CO1 | 10 |
| (OR) | | | | |
| 4. |  | Sketch the use case diagram and class diagram for the following problem statement.”A library lends books and magazines to members, who are registered in the system. Also it handles the purchase of new books for the library. Popular books are bought in multiple copies. The old books and magazine are removed when they are out of date or poor condition. A member can reserve a book or magazine that is not currently available in the library, so that when it’s returned or purchased by the library, that person is notified. The librarian can easily create, update, and delete information about the books, members, loans, and reservations in the system. | CO1 | 20 |
| 5. | a. | Sketch the E-R diagram for the following situation. “An account is a relationship between customer and bank. A customer has a name. A bank has a branch. A customer may have several accounts of different type and balance.” | CO1 | 8 |
|  | b. | Summarize different kind of architectural styles exist in a software and explain in detail. | CO1 | 12 |
| (OR) | | | | |
| 6. | a. | Write a brief overview of important software design concepts that span both traditional and object-oriented software development. | CO1 | 10 |
|  | b. | Recall the main objectives of reviews and discuss the players involve in a review meeting. | CO2 | 10 |
| 7. | a. | Discover the golden rules to be followed by the designer while designing the interface. | CO1 | 5 |
|  | b. | List the elements of Software Configuration Management system. | CO2 | 5 |
|  | c. | Explain validation testing and system testing in detail. | CO2 | 10 |
| (OR) | | | | |
| 8. | a. | State the steps which are required to perform statistical SQA. | CO3 | 10 |
|  | b. | Enumerate ISO 9001:2000 quality standard. | CO3 | 10 |
|  | | **Compulsory**: |  |  |
| 9. |  | Define agile view of process. Describe how to achieve the principles of agility? | CO1 | 20 |

ALL THE BEST