

**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

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

**End Semester Examination – Nov/Dec - 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14CS3037** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **Requirements Engineering** | **Max. marks :** | **100** |

ANSWER ALL THE QUESTIONS (5 x 20 = 100)

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| Q. No | | Question | Marks allotted |
|  | | **Compulsory:** |  |
| 1 | a | Explain various types of prototyping with examples | 10 |
|  | b | Draw the use case diagram and class diagram for the following problem statement. “This project is aimed at developing a school administration system, which can streamline the administration of school. It’s often felt that the school management is disorganized in nature. It involves many administrative work and co-ordination. This project is to develop and deploy a web based application so that the different aspects of a school administration become easy to handle. This includes tracking information of number of leaves taken by staffs and calculating salary according it and keeping track of the fees paid by student”. | 10 |
| 2 | a | What are the three levels of software requirements? Describe “Business Requirements” and “User Requirements” with suitable examples. | 10 |
| b | Explain the structure of the requirement document. | 10 |
|  |  | (OR) |  |
| 3 | a | Name the Stakeholders of a given system and the roles played by them. “This project is aimed at developing a patient billing software system that is of importance to a hospital. The Patient billing software is a local software system. This system can be used to maintain the location (bed no.) of each patient either in the ward or the ICU. Information about the patient and the charges for the bed also stored. The patient is also to be billed for the tests taken up, for the medicines given and operations carried on” | 10 |
| b | Write any two responsibilities and rights of a customer on preparing the requirement documents. | 10 |
| 4 | a | Explain how product champion serves as the primary interface between user representatives and the project's requirements analyst. | 10 |
| b | What are the challenges faced by a product champion. | 5 |
| c | Is Event response table is well situated for Real time systems for requirement analysis? Justify your answer. | 5 |
|  |  | OR |  |
| 5 | a | Analyze the given scenario and use the keyword template for writing a product vision statement.  “To buy a book electronically from chapters.com, a customer needs to select the book from a list provided by Chapters’ ecommerce system, provide credit card information to the system, then the system gets authorization from the bank for the payment, and—if positive -- confirms the sale. The order is then sent to the orders department and when the book becomes available, it is shipped to the customer. Also, the order department charges the customer’s credit card by informing the bank of the amount.” | 10 |
|  | b | What are the various user classes that plays a important role in representing their voice to developer and the analyst. | 10 |
| 6 | a | Explain how the requirement version control helps in managing requirements specifications and other project documents. | 10 |
| b | Illustrate with the example how the requirements status is tracked in the specification document. | 10 |
|  |  | OR |  |
| 7 | a | What is CCB? How would you manage and track the changes in the requirement document? | 10 |
|  | b | Discuss about the activities that are performed during the traceability task in requirement management. | 10 |
| 8 | a | Explain process improvement cycle and action plan to improve the requirement process. | 10 |
|  | b | What are the six parts scenario involved in maintain the quality attribute? | 10 |
|  |  | OR |  |
| 9 | a | How will you manage a risk and document it to improve the chance of project success and reduces the financial or other consequences of those risks that you can't avoid? | 20 |