****

**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**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **09CS205/11CS202/12CS228** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **Software Engineering** | **Max. marks :** | **100** |

|  |  |  |
| --- | --- | --- |
| **Q. No.** | **Questions** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |
| 1. | \_\_\_\_\_\_\_\_\_\_\_is the study and application of engineering to the design, development, and maintenance of software. | (1) |
| 2. | \_\_\_\_\_\_\_\_ phase in Waterfall life cycle immediately follows design phase. | (1) |
| 3. | The context diagram of a DFD is also known as \_\_\_\_\_\_\_\_\_. | (1) |
| 4. | COCOMO stands for\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | (1) |
| 5. | What is the purpose of a design in software? | (1) |
| 6. | A class is a collection of \_\_\_\_\_\_\_\_\_. | (1) |
| 7. | Alpha and Beta Testing are forms of \_\_\_\_\_\_\_\_\_. | (1) |
| 8. | \_\_ \_\_\_\_\_\_\_\_\_ is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. | (1) |
| 9. | \_\_\_\_\_\_\_\_\_\_\_ is the task of tracking and controlling changes in the software. | (1) |
| 10. | Define Pareto principle. | (1) |

|  |  |  |
| --- | --- | --- |
| **PART B(5 X 3= 15 MARKS)** | | |
| 11. | Brief the phases involved in Generic process framework. | (3) |
| 12. | Give the thumb rules for analysis model. | (3) |
| 13. | Point out any four characteristics of a good design class. | (3) |
| 14. | List the benefits of smoke testing. | (3) |
| 15. | Write notes on version control. | (3) |

|  |  |  |
| --- | --- | --- |
| **PART C(5 X 15= 75 MARKS)** | | |
| 16. | Explain the waterfall model with a neat diagram. List out the advantages and disadvantages. | 15 |
| (OR) | | |
| 17. | Elucidate on agile process and agile process models. | 15 |
| 18. | Explain in detail about requirement engineering process in requirement analysis | 15 |
| (OR) | | |
| 19. | Provide the guidelines that can aid during the derivation of a dataflow diagram and illustrate the use of DFD and related notation by considering the SafeHome security function. | 15 |
| 20. | Briefly discuss about the golden rules involved in user interface design. | 15 |
| (OR) | | |
| 21. | Explain in detail about architecture styles. | 15 |
| 22. | Differentiate between conventional testing and object oriented testing. Discuss in detail about unit testing. | 15 |
| (OR) | | |
| 23. | What is white box testing? How does it differ from black box testing? Explain the basis path testing in detail. | 15 |
| 24. | Give a detailed note on the software configuration management and its process. | 15 |
| (OR) | | |
| 25. | Discuss in detail about formal and informal technical review meeting. | 15 |