Reg. No. : | | | | | | | | | | |

Question Paper Code: 41845

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

Fourth Semester

Information Technology

14UIT405 - OBJECT ORIENTED SOFTWARE ENGINEERING METHODOLOGIES

(Regulation 2014)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. A number of _____ each a collection of software engineering tasks, project milestones, work products and quality assurances.

   (a) task sets (b) software quality assurance
   (c) software configuration management (d) process maturity

2. _____ assumes that mitigation efforts have failed and that the risk has become a reality.

   (a) Risk monitoring (b) Risk mitigation
   (c) Risk management (d) Risk information sheet

3. The process of finding out analyzing, documenting and checking the services and constraints are called as _____.

   (a) software requirements (b) requirement engineering
   (c) user requirements (d) system requirements

4. The _____ is an organized listing of all data elements that are pertinent to the system.

   (a) Data marts (b) Data dictionary (c) Petri nets (d) PERT

5. Fundamental software design concepts provide the necessary framework for getting it _____.

(a) wrong (b) right (c) consistent (d) unambiguous

6. Component level design, also called _____ which occurs after data, architectural and interface design which have been established.

(a) design model (b) operational software
(c) modular design (d) procedural design

7. A _____ is one that uncovers an as – yet – undiscovered error.

(a) testing (b good test (c) successful test (d) worst case test

8. _____ occurs as a consequence of successful testing.

(a) Debugging (b) Test case
(c) Symptomatic indication (d) Overriding

9. _____ is a systematic attempt to specify threats to the project plan.

(a) Risk identification (b) Risk management
(c) Risk projection (d) Risk mitigation and monitoring

10. _____ measures of the resources like people, environment required to do the work.

(a) Results (b) Output (c) Inputs (d) Metrices

PART - B (5 x 2 = 10 Marks)

11. Define software engineering and list few applications.

12. List and explain the features of the tools.

13. Summarize the work of component level design.

14. Classify various characteristics of testability.

15. Illustrate the required steps that are recommended to determine the overall consequences of a risk.

PART - C (5 x 16 = 80 Marks)

16. (a) (i) Discuss about the incremental model in software process model. (8)

(ii) Explain software process. (8)

Or

(b) (i) Identify how problem based estimation is done in software process? Give an example. (10)

(ii) Examine about COCOMO model. (6)

17. (a) Illustrate in detail about functional, nonfunctional and user requirements. (16)

Or

(b) Demonstrate clearly about requirements management. (16)

18. (a) List various software design concepts. (16)

Or

(b) Describe user interface design. (16)

19. (a) Explain black box testing. (16)

Or

(b) Formulate validation and system testing. (16)

20. (a) Discriminate about the make / buy decision. (16)

Or

(b) Discuss about RMMM. (16)

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