Reg. No. :

Question Paper Code: 41845

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

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. Which of the following is the most important phase of SDLC??

    (a) Requirements analysis   (b)Design
    (c) Testing   (d) Coding

2. SDLC stands for

    (a) Software design life cycle   (b) Software development life cycle
    (c) System design life cycle   (d) System development life cycle

3. Which of the following quality of SRS document ensures to compare the results of a phase with another phase

    (a) Structured   (b) Verifiable
    (c) Traceable   (d) Concise

4. What is the goal of the requirements analysis and specifications phase of software development life cycle?

    (a) Understanding the customer requirements and organize them in an informal document
    (b) Analysing the cost of development

(c) Determining scope of the software

(d) None of the above

5. The term module in the design phase refers to

    (a) Functions   (b) Procedures

    (c) Sub programs   (d) All of the above

6. Entities, attributes and relationships are associated with

    (a) Logical concepts of data   (b) Physical concepts of data

    (c) Programming   (d) None of these

7. White box testing, a software testing technique is sometimes called

    (a) Basic path   (b Graph testing

    (c) Dataflow   (d) Glass box testing

8. "Black" refers in the "Black-box" testing means

    (a) Characters of the movie "Black"   (b) I / O is hidden

    (c) Design is hidden   (d) Users are hidden

9. In size oriented metrics, metrics are developed based on the _____

    (a) number of functions   (b) number of user inputs

    (c) number of lines of code   (d) amount of memory usage

10. In intermediate COCOMO the mode that represents complex products is referred to as

    (a) Embedded   (b) Semidetached

    (c) Organic   (d) Multiplicative

PART - B (5 x 2 = 10 Marks)

11. Define software engineering.

12. Define: Petri Nets and Data Dictionary.

13. List any four types of Coupling.

14. Name the activities of software configuration management.

15. Differentiate between Reactive and Proactive Risk Management.

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PART - C (5 x 16 = 80 Marks)

16. (a) What is meant by process model? Explain in details about any two process model. (16)

Or

(b) Explain in detail about Project Risk Management with neat sketch. (16)

17. (a) Describe in detail Functional and Non-functional system requirements with neat diagram. (16)

Or

(b) Discuss the requirement engineering process and how the requirements are managed? Discuss about the requirement engineering process with their management principles. (16)

18. (a) Describe in detail about various design concepts used in software engineering. (16)

Or

(b) Explain in detail about any four architectural styles. (16)

19. (a) Explain in details the various testing strategies. (16)

Or

(b) Explain in detail about Integration testing. (16)

20. (a) What are the metrics used for estimating cost? Discuss in details about the COCOMO model in cost estimation of the software. (16)

Or

(b) Discuss in detail about Earned Value Analysis (EVA) with an illustration. (16)

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