Reg. No. :

Question Paper Code: 43206

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Third Semester

Computer Science and Engineering

14UCS306 - SOFTWARE ENGINEERING

(Regulation 2014)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Which one of the following is not a phase of Prototyping Model?

    (a) Quick design   (b) Coding
        (c) Prototype Refinement   (d) Engineer Product

2. Which one of the following models is not suitable for accommodating any change?

    (a) Build AND Fix Model   (b) Prototyping Model
    (c) RAD Model   (d) Waterfall Model

3. Why is Requirements Management Important ? It is due to the changes

    (a) to the environment   (b) in technology
        (c) in customer's expectations   (d) All of above

4. Which is not a step of requirement engineering?

    (a) Requirement documentation   (b) Requirements elicitation
    (c) Requirement analysis   (d) Requirement design

5. Structured charts are a product of

    (a) Requirements gathering   (b) Requirements analysis

    (c) Design   (d) Coding

6. The desired level of coupling is

    (a) Control coupling   (b) Common coupling

    (c) Data coupling   (d) No coupling

7. The main purpose of integration testing is to find

    (a) Design errors   (b) Analysis errors

    (c) Procedure errors   (d) Interface errors

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    (a) Design errors   (b) Analysis errors   (c) Procedure errors (d) Interface errors

9. The problem that threatens the success of a project but which has not yet happened is a

    (a) Bug   (b) Error   (c) Risk   (d) Failure

10. Which is not a size metric?

    (a) LOC   (b) Program length

    (c) Function count   (d) Cyclomatic complexity

PART - B (5 x 2 = 10 Marks)

11. Define Software process.

12. Distinguish between User Requirements and System Requirements.

13. What are the types of interface design?

14. Distinguish between black box testing and white box testing.

15. List out the types of project plan.

PART - C (5 x 16 = 80 Marks)

16. (a) Explain the linear software life cycle model with neat diagram. Bring out the merits and demerits of this model. (16)

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Or

(b) Explain about scheduling in detail. (16)

17. (a) (i) Explain about any two Requirement Elicitation Methods. (10)

(ii) Discuss about functional and non-functional requirements. (6)

Or

(b) Write short notes on software requirements document with example. (16)

18. (a) What is transform mapping? Explain the process in detail. (16)

Or

(b) Describe the important principles and steps of user interface analysis and design (16).

19. (a) What is Black Box testing? Explain the two different types in detail. (16)

Or

(b) Explain in detail about integration testing process and system testing process. (16)

20. (a) Explain briefly about various software risks. Draw the flow chart of risk management- activity. (16)

Or

(b) Explain briefly about various software risks. Draw the flow chart of risk management-activity. (16)

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