Reg. No. :

Question Paper Code: 41236

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

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. SDLC stands for

   (a) Software Development Life Cycle   (b) System Development Life Cycle
   (c) Software Design Life Cycle   (d) System Design Life Cycle

3. What are the types of requirements?

   (a) Availability   (b) Reliability
   (c) Usability   (d) none of these

4. 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

5. Coupling is a qualitative indication of the degree to which a module

   (a) can be written more compactly
   (b) focuses on just one thing
   (c) is able to complete its function in a timely manner
   (d) is connected to other modules and the outside world

6. Structured charts are a product of

    (a) Requirements gathering   (b) Requirements analysis

    (c) Design   (d) Coding

7. Software Requirement Specification (SRS) is also known as specification of

    (a) White box testing   (b) Acceptance testing

    (c) Integrated testing   (d) Black box testing

8. The main purpose of integration testing is to find

    (a) Design errors   (b) Analysis errors

    (c) Procedure errors   (d) Interface errors

9. What is related to the overall functionality of the delivered software?

    (a) Function-related metrics   (b) Product-related metrics

    (c) Size-related metrics   (d) None of these

10. 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

PART - B (5 x 2 = 10 Marks)

11. Define Software process.

12. Define Data Dictionary.

13. What are the benefits of horizontal and vertical partitioning?

14. What is the difference between black box testing and white box testing?

15. What is Risk mitigation?

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)

Or

  (b) Describe evolutionary process models with a suitable sketch. State its advantages and disadvantages.   (16)

17. (a) State and explain the requirements engineering tasks in detail.   (16)

Or

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

18. (a) What are the good characteristics of good design? Discuss in brief about architectural design. (16)

Or

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

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

Or

(b) What is meant by system testing? Explain different types of system testing in detail. (16)

20. (a) Write short notes on the various estimation techniques. (16)

Or

(b) Explain the relationship between people and effort with diagram. (16)

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