LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A. DEGREE EXAMINATION – **COMPUTER APPLICATIONS**

FIFTH SEMESTER – APRIL 2017

CA 5505- SOFTWARE ENGINEERING

Date: 22-04-2017   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

SECTION A

ANSWER ALL THE QUESTIONS   **10 X 2 = 20**

1. What are the various measures that define software quality?
2. List down the guidelines to be followed in MAKE OR BUY decision in software development.
3. What is Quality Function Deployment?
4. State the need of Software Requirement Analysis.
5. Define Attribute.
6. What is the need of Data Dictionary in the Analysis Model?
7. Write the three characteristics of a good software design.
8. Write down the transformation of analysis model into design model.
9. List down the various testing principles.
10. What are the various attributes of a 'Good Test'?

SECTION B

ANSWER ALL THE QUESTIONS   **5 X 8 = 40**

11. a. Explain the linear sequential model.
    (OR)
    b. Discuss on the estimation of resources required to accomplish the software development effort.

12. a. Explain about change control in software project development.
    (OR)
    b. Explain about software prototyping.

13. a. Briefly explain the elements of analysis model with a neat diagram.
    (OR)
    b. Explain the Entity Relationship Diagram with an example.

14. a. Explain about various design principles.
    (OR)
    b. Discuss on modularity in detail.

15. a. Explain about Debugging process in detail.
    (OR)
    b. Discuss on McCalls quality factors.

SECTION C

ANSWER ANY TWO QUESTIONS   **2 X 20 = 40**

16. a. Explain about Software Measurement.

b. Discuss on Control Structure testing.

17. a. Draw the Data Flow Diagram of Hospital Management System.

b. Explain about Requirement Analysis principles.

18. a. Explain about Basis Path testing.

b. Discuss on Effective Modular Design.

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