SN – 434

IV Semester B.C.A. Degree Examination, November/December 2010
(O.S. Scheme)
COMPUTER SCIENCE
4 BCA – 3 : Software Engineering

Time : 3 Hours   Max. Marks : 80

Instruction : *Answer all Sections.*

SECTION – A

Answer **any eight** questions.   (8×3=24)

1. Mention the different software Myths.   **3**

2. Explain Data dictionary with example.   **3**

3. Explain the software engineering process.   **3**

4. What is Adaptive Maintenance ?   **3**

5. What is coupling ? Explain in brief.   **3**

6. Define error, fault and failure.   **3**

7. Give the IEEE definition of software engineering.   **3**

8. Explain the resources required in project planning.   **3**

9. Give a brief account of formal technical review.   **3**

10. Explain briefly the characteristics of SRS.   **3**

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SECTION – B

Answer **any four** questions.   (4×14=56)

11. a) Give an account of software applications.   **4**

    b) Explain in detail the spiral model with a neat diagram.   **10**

12. a) Discuss size - oriented and function point metrics in detail. **6**

    b) Explain cocomo model in detail.   **8**

13. a) Explain the design principles in detail.   **6**

    b) What is DFD ? Explain the different symbols used in constructing DFD. **8**

14. a) Define Maintenance ? Explain the different types of maintenance. **6**

    b) What is SQA plan ? Explain the SQA plan in detail.   **8**

15. a) Define Testing. Explain the concept of test plan.   **6**

    b) Explain in detail white box and black box testing.   **8**

16. Write short notes on the following :   **14**

                                                                  (4+4+3+3)

    i) Cohesion

    ii) Characteristics of software

    iii) Automated estimation tools

    iv) Quality factors.