IMCA – 41

IV Semester Int. M.C.A. Examination, February/March 2010
SOFTWARE ENGINEERING

Time: 3 Hours Max. Marks: 100

Instructions: *1) Answer **all** questions in Part – **A**, **5** out of 8 questions in Part – **B** and **4** out of 6 questions in Part – **C**.*
*2) PART – **A**: Questions from **1 to 8** carry **1** mark **each** and **9 to 14** carry **2** marks **each**.*
*3) PART – **B**: **Each** question carries **8** marks.*
*4) PART – **C**: **Each** question carries **10** marks.*

PART – A

1. Define software engineering.
2. What is a GUI ?
3. What is generic risk?
4. What is the objective of PSL ?
5. Mention different process models in software engineering.
6. Write the abbreviation of ALADDIN.
7. Mention the phases of software engineering life cycle.
8. Mention good attributes of software.
9. What is empirical estimation ?
10. What is data encapsulation ?
11. Write an equation for MC Cabe's cyclomatic metric.
12. Differentiation between verification and validation.
13. What are the different types of software ?
14. Write the difference between white box and black box testing.

P.T.O.

PART – B

1. Explain the characteristic of software.
2. Describe the Prototyping model of software process model.
3. Explain software project estimation.
4. Explain the state oriented notations.
5. Explain modules and modularization criteria.
6. Describe single entry, single exit constructs.
7. Explain some of the do's and don'ts of good coding styles.
8. What ate the steps followed in the process of debugging by induction ?

PART – C

1. Explain the different S/W myths.
2. Describe the COCOMO model of software development.
3. Write a note on function-oriented metrics.
4. Explain any two decomposition techniques.
5. Explain how to develop a risk table and assessing risk impact in risk estimation
6. Write an activity diagram and Data diagram. Explain Structured Analysis and Design Technique (SADT).

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