SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2014

(CUCSS)

Computer Science

CSC 2C 03—SOFTWARE ENGINEERING

Maximum : 36 Weightage

Time Three Hours

Part A

Answer **all** *questions.*
Each question carries a **weightage** *of 1.*

1. Define Software Product.
2. What are the different Umbrella activities in Software Engineering ?
3. What is meant by Software reusability ?
4. Define COCOMO model.
5. What are the characteristics of Software Risk ?
6. What is Software project scheduling ?
7. What is meant by requirement elicitation ?
8. What do you mean by Software availability ?
9. What does Software quality attribute 'FURPS' meant ?
10. What is cardinality and modality ?
11. Describe any *three* attributes of a good test.
12. Define cyclomatic complexity.

(12 x 1 = 12 weightage)

Part B

Answer any six questions.
Each question carries a **weightage** *of 2.*

13. Explain the layered approach used in Software Engineering.
14. Why programs which are developed using Evolutionary development are likely to be difficult to maintain ?
15. Explain decision tree analysis in make/buy decision.

Turn over

16. What is Software Reliability ? What are the difference between software reliability and software safety ?

17. Discuss verification and validation.

18. Explain RMMM strategy ?

19. Explain the tasks involved in Requirement Engineering.

20. What are the elements of the Analysis model ? Draw the structure.

21. Write a short note on developing use case.

(6 x 2 = 12 weightage)

Part C

Answer any **three** *questions.*
Each question carries a weightage of 4.

22. What is the importance of models in Software Engineering ? Explain with example any *three* Process models.

23. Describe Empirical Estimation models for Software.

24. Explain various strategies and steps involved in Risk Management.

25. What is meant by SQA ? Discuss in detail SQA activities.

26. Explain white-box and black-box testing.

(3 x 4 = 12 weightage)