Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS/M.Tech(CSE)/SEM-2/PGCS-204/2012
2012
SOFTWARE ENGINEERING

Time Allotted : 3 Hours   *Full Marks* : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
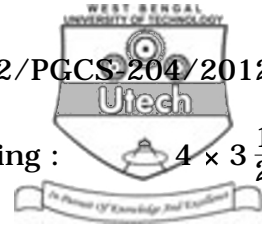as far as practicable.*

Answer any *five* questions.   5 × 14 = 70

1. a) What is the advantages of SRS document ? Why the SRS document is known as black box specification of a system ?   3 + 2

    b) Explain RAD model ? Write the advantages and disadvantages of incremental model ?   5 + 2 + 2

2. a) What is COCOMO model ? Why is the intermediate COCOMO expected to give more accurate estimates than the basic COCOMO ?   3 + 2

    b) Discuss about Project Risk Management and Control. Is the spiral model of software development Risk Management model ? Explain.   6 + 3

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3. a) Write the characteristics of good software design. 3

   b) What is the difference between graphical user interface and text-based user interface ? 3

   c) Discuss about driver and stub. 2 + 2

   d) Discuss about fact finding technique. 3

   e) Write one disadvantage of evolutionary model. 1

4. a) What is the difference between fault, failure, bug and error ? 6

   b) Write two differences between a structure chat and a flow chart. 4

   c) Discuss equivalence class partitioning and boundary value analysis. 2 + 2

5. a) Discuss about cyclomatic complexity. 4

   b) Discuss acceptance testing and structural testing.

   3 + 3

   c) What is the difference between verification and validation ? 4

6. Write short notes on any *four* of the following : $4 \times 3\frac{1}{2}$

    a) Spiral model

    b) Unit testing

    c) Reengineering

    d) Reverse engineering

    e) Code inspection and code walk through.

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