Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS/MBA (OLD)/SEM-6PT/SM-404/2011

2011
SOFTWARE MANAGEMENT

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.

GROUP – A
(Objective Type Questions)

1.   Choose the correct alternatives for the following : $10 \times 1 = 10$

   i)   Which model is known as Meta model ?

      a)   RAD   b)   Spiral

      c)   Waterfall   d)   Prototyping.

   ii)   DFD is known as

      a)   Bubble chart   b)   Selection chart

      c)   Insertion chart   d)   none of these.

   iii) Which one is not a level of CMM ?

      a)   initial   b)   defined

      c)   managed   d)   none of these.

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iv) System Testing is a part of quality assurance.

   a) True

   b) False.

v) Software refers to physical device of a computer system.
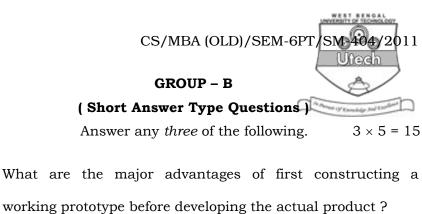
   a) True

   b) False.

vi) Which stage is not covered by SDLC ?

   a) Design   b) Coding

   c) Testing   d) None of these.

vii) Which one is not a Software Process Model ?

   a) Spiral model   b) COCOMO model

   c) Prototyping model   d) WIN WIN spiral model.

viii) Which one is not valid ?

   a) Basic COCOMO   b) Intermediate COCOMO

   c) Complete COCOMO   d) Incomplete COCOMO.

ix) MS Project is useful for

   a) Gantt chart   b) DFD

   c) ER diagram   d) none of these.

x) PERT stands for ....   (Fill in the blank)

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following.   3 × 5 = 15

2. What are the major advantages of first constructing a working prototype before developing the actual product ?

3. How are the risks associated with a project handled in the spiral model of software development ?

4. List the major responsibilities of a software project manager.

5. What are the three categories of estimation technique ?

6. What is project planning ? What are its activities ?   2 + 3

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.   3 × 15 = 45

7. a) Explain basic, intermediate, complete COCOMO in detail.

    b) When do we call a project is organic type, semi-detached and embedded ?   (3 × 2) + (3 × 3)

8. What is SRS ? What is its necessity ? What are the characteristics of a good SRS ? Define ERD.   2 + 3 + 8 + 2

9. a)   Discuss prototype model in SDLC.

    b)   Describe different software metrics used in cost estimation.

    c)   When do we use RAD and evolutionary model while developing software ?   5 + 5 + 5

10. Explain when one project manager is to use PERT chart and when to use Gant charts. Explain work breakdown structure with suitable figure.   8 + 7

11. Write short notes on any *three* :   3 × 5

    a)   Product maintenance

    b)   Cyclomatic complexity

    c)   Waterfall model

    d)   WBS

    e)   Risk management.