Registration No. :

Total number of printed pages – 2

Seventh Semester (Special) Examination – 2013

SOFTWARE ENGINEERING

BRANCH : CSE, IT

QUESTION CODE : D 423

Full Marks – 70

Time : 3 Hours

*Answer Question No. 1 which is compulsory and any **five** from the rest.*

The figures in the right-hand margin indicate marks.

1. Answer the following questions :   2×10

    (a) What are the characteristics of the software ?

    (b) Define software process.

    (c) What are the merits of incremental model ?

    (d) What is System Engineering ?

    (e) What is the use of CMM ?

    (f) Name the Evolutionary process Models.

    (g) What are the various types of traceability in software engineering ?

    (h) What are the advantages of evolutionary prototyping ?

    (i) What is data modeling ?

    (j) Define Data Dictionary.

2. (a) List the major differences between the exploratory and modern software development practice.   5

    (b) What is a flow chart ? How is the flow charting techniques useful for software development ?   5

3. (a) What are the important activities that are carried out during the feasibility study phase ? 5

   (b) Explain why the spiral life cycle model is considered to be a meta model. 5

4. (a) List the major responsibilities of a software project manager. 5

   (b) What is sliding window planning ? Explain with an example. 5

5. (a) List the five desirable characteristics of a good Software Requirements Specification (SRS) document. 5

   (b) Differentiate between Decision Tree and Decision Table. 5

6. (a) Enumerate the different types of Coupling that a module might exhibit. 5

   (b) Discuss the advantages of functional independence. 5

7. (a) What do you mean by balancing DFD? Illustrate your answer with a suitable example. 5

   (b) What is a stereotype in UML ? Explain with an example. 5

8. (a) Define the term cohesion in the context of object-oriented design of system. 5

   (b) What is the difference between black-box and white-box testing ? 5

_____