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Total number of printed pages – 2

B. Tech  
PCIT 4302

Sixth Semester Regular Examination – 2014

SOFTWARE ENGINEERING

BRANCH(S) : IT, ES 12

QUESTION CODE : F 239

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 is the Six Sigma quality initiative ?
- (b) Define the term "MTBF of 200 units".
- (c) What is code walk-through ?
- (d) What is "stereotype in UML" ?
- (e) What are the advantages of encapsulation ?
- (f) What is data Dictionary ?
- (g) What is Top-down-decomposition ?
- (h) What is prototyping ?
- (i) What is Risk Management ?
- (j) Write different stages of SDLC.

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

(b) What is SRS ? Explain the different component of SRS. 5

P.T.O.

3. (a) What are the different shortcomings of Data Flow Diagram (DFD) as a tool for performing structured analysis ? 5  
(b) Explain the cost estimation procedure using Basic COCOMO model. 5
4. What is Relationship ? How "Is-A Relationship" is differ from "Has-A Relationship" ? Justify your answer with examples. 10
5. (a) What is the difference between object-oriented analysis (OOA) and object-oriented design (OOD) ? 5  
(b) What is the difference between a sequence diagram and collaboration diagram ? 5
6. (a) What is the difference between software verification and software validation ? 5  
(b) Differentiate between Path testing and data flow testing. 5
7. (a) Why it is important for a software development organization to obtain ISO 9001 certification ? 5  
(b) What is the difference between process metrics and product metrics ? 5
8. Write short notes any **two** of the following : 5x2  
(a) Coupling Vs. Cohesion  
(b) Decision Tree Vs. Decision Table  
(c) DFD Vs. Flow Chart.

