Time 3 hours   Marks 80

Note: Question No. 1 is Compulsory
Attempt any 3 Questions from the Remaining Questions.

Q1   20

a   Define Software Engineering and explain Software Process Framework

b   What is CMM? Explain its different levels

c   What is agile development? What are its advantages

d   What is the role of analysis and design in software development

Q2

a   What is Prescriptive Model? Explain Waterfall and Incremental Model. How are they different   10

b   Explain Component Based Development and Formal Methods Model   10

Q3

a   What is agility? Explain its principles   10

b   Explain XP   10

Q4

a   Explain core principles of Software Engineering Practice   10

b   For "Assignment Management System" formulate problem statement. For the formulated   10
    problem statement draw Use Case Diagram and Activity diagram for each use case

Q5

a   Explain design concepts in brief   10

b   Explain quality guidelines and quality attributes of software design   10

Q6

a   Dfine Risk. Identify two risks for your final year examination and prepare RMMM plan   10

b   What is black box and white box testing. Draw CFG for the given PDL and find cyclomatic   10
    complexity.
    if(c1 or c2)
       do
         s1;
       s2;
       while(c3)
    else
       while(c4) s3;
    s4;

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