Q.P code : 36619

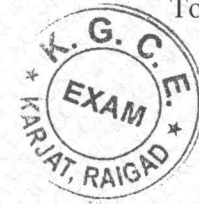(3 Hours)   Total Marks:80

N.B   : (1) Question No. 1 is compulsory
.   (2) Attempt any three questions out of remaining five.

1. (a) When should one use Prototype model? Discuss the advantages and disadvantages   8
         of the prototype model.
    (b) Discuss Abstraction, Information Hiding and Functional Independence.   6
    (c) Explain the features of repository required to support SCM.   6

2. (a) Explain with suitable diagram Scrum Agile model.   10
    (b) Why Integration testing is needed to test a software? Explain the different   10
         incremental integration strategies.

3. (a) List different metrics used for software measurement. Explain function point based 10
         estimation technique in detail.
    (b) What do you understand by software maintenance? Also explain the different types   10
         of maintenance.

4. (a) Explain in detail the Software Configuration Management process with suitable   10
         diagram.
    (b) What is white box testing? Explain the basis path testing method in detail.   10

5. (a) What are the different categories of Risks? Explain the steps in developing RMMM   10
         plan.
    (b) What is FTR in SQA? What are its objectives? Explain the steps in FTR.   10

6.   Write short notes on **any two (any 2)**   20
    (a) Black Box Testing
    (b) COCOMO II estimation models
    (c) Test Driven Development
    (d) Service Oriented Software Engineering

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