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Roll No

MCTA - 204 M.E./M.Tech. II Semester

Examination, June 2016

Software Engineering and Project Management

Time: Three Hours

Maximum Marks: 70

Note: i) Total number of questions eight.

- ii) Attempt any five questions.
- Compare and contrast various software development model in tabular form. State the advantages and disadvantages of each model.
 - b) What do you mean by software requirement specification? Explain in detail.
- Describe clearly how a design is influenced by the following:
 - i) Cohesion and coupling
 - ii) Horizontal and vertical partitioning
 - Consider an online banking registration system. Draw its use case diagram.
- What is the role of use case in object oriented requirement analysis?
 - b) Write a short note on user interface design.
- How can project scheduling after integration testing?
 - Distinguish between:

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- i) Black box and white box testing
- ii) Alpha and Beta testing

5. a) What is the relationship between OOA, software requirement and OOD? Explain using suitable examples.

Consider the following code

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```
for (i = 1; i < 10; i++)
for (j = 1; j<10; j++)
sum = i+j;
prod = i * i;
```

Identify test cases to perform loop testing.

- Suppose that you are developing a software product in organic mode. You have estimated size of product to be about 1,00,000 LOC. Compute nominal effort and development time.
 - Explain Risk analysis in detail. What is decision tree analysis in context to Risk Management?

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- What is the difference between direct and indirect measurement?
 - What are different types of maintenance? Explain briefly.
- 8. Write short note on any four:
 - Re-engineering software products
 - PERT b)
 - CASE Tool c)
 - Software Quality Assurance
 - Client-server Software development

PTO

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