

(Please write your Exam Roll No.)

Exam Roll No. ....

# END TERM EXAMINATION

## FIFTH SEMESTER [MCA] DECEMBER-2013

Paper Code: MCA 333

Subject: Software Quality  
Management

Time : 3 Hours

Maximum Marks : 60

Note : Attempt any five questions.

Q.1 Write short note on :

4x3

- a) Boehm Model
- b) Regression testing
- c) Version Control

Q.2 a) Explain in detail Cyclomatic complexity. Explain how it is used in deriving the logical complexity of a program.

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b) What is the role of a CMM.

4

Q.3 a) Explain in detail about CASE tools.

b) Explain software quality and various views on quality with next diagram.

6x6

Q.4 a) What does software audit review means. Discuss the objectives and participants.

b) Explain structure metrics in detail .

6x6

Q.5 a) What is code inspection. What are the some important defects that can be detected?

b) Explain the defect removal effectiveness.

6x6

Q.6 McCall suggest that simplicity, modularity, instrumentation and self descriptiveness are quality criteria that is internal characteristics that promote external quality testability.

(I). Explain each of the above four criteria.

(II) Describe the possible measures for each of the criteria.

(III) Describe the possible ways in which the measures could be assessed.

**4x4x4**

Q.7 a) Explain in detail about the Rayleigh model.

b) Explain about Software Quality assurance for a software.

**6x6**

Q.8 A premier company namely “ Hi-Tech solutions ” located in 10 cities in India and 2 in USA. It is an ISO certifies organization. The product of company is dealing with e governance, disaster management and data backup solutions. Kindly illustrate different aspects of quality management and accreditations of Hi Tech solution from your perspective. Justify how this company is declared to be a quality oriented firm.

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