

END TERM EXAMINATION

FIFTH SEMESTER [MCA] DECEMBER 2015-JANUARY 2016

Paper Code: MCA-333

Subject: Software Quality Management

Time: 3 Hours

Maximum Marks: 60

Note: Attempt any five questions.

- Q1 Explain the following quality standards in brief: (4x3=12)
(a) SPICE
(b) Mc Call Model
(c) Six Sigma
- Q2 (a) Differentiate between Software Quality Assurance and Software Quality Control. (6)
(b) Define the cost of quality. (6)
- Q3 (a) What are different views of quality as specified by Gravin? (6)
(b) What is the importance of documentation in maintaining the quality of software? (6)
- Q4 (a) Explain the concept of software inspection, walkthrough, review and audit process. (6)
(b) Explain different maturity levels of CMM. (6)
- Q5 (a) Differentiate between re-testing and regression testing. What are the major test plan elements? (6)
(b) Define cyclomatic complexity. What are various ways of calculating it? Explain with an example. (6)
- Q6 (a) Explain in brief the error reporting procedure. (8)
(b) Explain the process of Change Management with the help of a diagram. (4)
- Q7 (a) Define defect detection efficiency. (4)
(b) Why defect prevention is crucial to the software process? What are different steps of software defect prevention? (8)
- Q8 (a) What is clean room software engineering? (6)
(b) Explain the importance of traceability metrics. (6)
