

Roll No. \_\_\_\_\_

**10224**

Printed Pages: 3

**MCA / M-12**

**SOFTWARE QUALITY MODEL**

**Paper-MCA-405 (V)**

Time allowed : 3 hours} [Maximum marks : 80

*Note : Attempt five questions, at least one question from each unit. Question No. 1 is compulsory. All questions carry equal marks.*

**1. Write short note on the following :**

- (a) Benchmarking
- (b) Zero-Defect
- (c) Walk through
- (d) Class testing
- (e) Auditing
- (f) Matrics
- (g) Software Feasibility
- (h) Software Line of Codes.

8×3=24

**Unit-I**

2. (a) What is Software Quality Assurance ? How cost of quality is calculated ?

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- (b) Discuss six-sigma as Business process re-engineering. 7+7=14

3. What do you mean by Software Quality Factors ? Discuss the relationship between quality factor and quality matrix. 14

**Unit-II**

4. Discuss internal and external product attributes as the measures of software quality. 14
5. What is software quality matrix ? Discuss the metric for software maintenance. 14

**Unit-III**

6. How software reliability is directly related with software quality ? Discuss Jelinski Moranda Software reliability model. 14
7. (a) Differentiate between functional and structural testing.
- (b) Discuss software testing strategies in detail.

7+7=14

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**Unit-IV**

8. Explain the following :

(b) Formal Technical Review

(b) Clean-room Software Engineering.  $7+7=14$

9. (a) Write a note on Malcolm Baldrige Award.

(b) State SEI-CMM standards of software quality assurance.  $7+7=14$