



RAN - 2111000306030052

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**T. Y. B. Sc. (Sem. - VI) Examination April - 2023**

**Computer Science : Paper - GE (607-1)**

**Software Quality Assurance**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**सूचना : / Instructions**

(1)

नीचे दृश्यावलोकन निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.  
Fill up strictly the details of signs on your answer book

Name of the Examination:

T. Y. B. Sc. (Sem. - VI)

Name of the Subject :

Computer Science : Paper - GE (607-1) Software Quality Assurance

Subject Code No.: 2111000306030052

Seat No.:

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Student's Signature
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**Q. 1. Answer the following in short. (14)**

- 1) Differentiate between Audits and Reviews.
- 2) Define software quality factors "Efficiency & Integrity"
- 3) What is Informal review? How it is different from formal review?
- 4) What is pareto principal for defect isolation?
- 5) What do you mean by Goal oriented software metrics?
- 6) Define quality in terms of customer's satisfaction.
- 7) Explain terms 'Fan out' and 'Structural complexity' of Hierarchical Design of software.

**Q. 2. Answer the following in detail. (12)**

- (a) Write a note on Requirement Review, Design Reviews and Code Reviews.
- (b) Discuss roles and responsibilities of SQA Group.

**OR**

- (a) Discuss activities of measurement process.
- (b) Discuss attributes for effective metrics.

**Q. 3. Answer the following in detail. (12)**

- (a) Discuss Six Sigma Model used as strategy for statistical quality assurance.
- (b) Discuss ISO 9000 and ISO 9001 standards.

**OR**

- (a) Discuss various metrics for object oriented design.
- (b) What is cost of software quality? Discuss various kinds of costs of software quality

**Q. 4. Answer any three of following: (12)**

- 1) Discuss CMMi in detail.
  - 2) Write short note on requirement review.
  - 3) Discuss various metrics of software coding.
  - 4) What is software reliability. Discuss formula to measure software reliability.
  - 5) Discuss terms reviews and inspections.
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