

Seat
No.

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मन - 059

Software Metrics & Quality Assurance (New) (1300)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Attempt **any two** subquestion from each unit.
5. Draw diagrams wherever necessary.
6. Assume suitable data if necessary.

UNIT - I

1. a) What is representational theory of measurement ? 10
b) Write note on. 10
i) Product & process.
ii) Interval & Ratio scale.
c) Explain scope of software metrics with suitable diagrams. 10

UNIT - II

2. a) What are different structural measures ? Explain data flow structure in detail. 10
b) Explain modularity and information flow in detail. 10
c) Explain measuring aspects of quality. 10

UNIT - III

3. a) Define software reliability. Explain basics of reliability theory. 10
b) What is cost estimation ? Which are different approaches for cost estimation ? 10
c) Explain Jelinski - Moranda model and other models based on it. 10

UNIT - IV

4. a) What is importance of documentation ? Explain documentation in detail. 10
b) Explain both inspection process & Audit process. 10
c) Which are different quality assurance techniques ? Explain briefly. 10

UNIT - V

5. a) What is forward engineering and reverse engineering ? Clarify difference. 10
b) Explain clean room design in detail. 10
c) What is need of business process reengineering ? Explain BPR model. 10
