

Seat  
No.

--	--	--	--	--	--



DII1359

## 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** sub-questions from each unit.
5. Assume suitable data wherever necessary & state the assumptions made.
6. Diagram should be given wherever necessary.
7. Figures to the right indicate full marks.

### UNIT - I

1. a) What is representational theory of measurement ? Explain in detail. 10  
b) What is scope of software metrics ? Explain in detail. 10  
c) Write a short note on : 10  
i) Product & process.      ii) Interval & ratio scale.

### UNIT - II

2. a) What is function point ? Explain Albrecht's functional point approach in detail. 10  
b) Which are the structural measures ? Explain control flow structure in detail. 10  
c) Explain ISO 9126 standard quality model. 10

### UNIT - III

3. a) Explain parametric reliability growth models. 10  
b) How to deal with the problems of current cost estimation methods ? 10  
c) Explain Jelinski- Moranda & other models based on it. 10

**UNIT - IV**

4. a) Which are the software quality assurance techniques ? Explain in details. 10
- b) Explain Audit process in details. 10
- c) What is the importance of documentation ? Explain documentation in detail. 10

**UNIT - V**

5. a) What is software reengineering ? Explain in detail. 10
- b) Explain BPR model in detail. 10
- c) Explain cleanroom approach in detail. 10

\*\*\*\*\*