

Code No.: IT742PE

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD  
UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Regular) - November- 2023  
SOFTWARE METRICS AND MEASURES  
(IT)

[Time: 3 Hours]

[Max. Marks: 70]

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

(20 Marks)

1. a) Define reliability and validity? [2M]
- b) Define Product Quality Metrics? [2M]
- c) Define Histogram? [2M]
- d) What is Scatter diagram? [2M]
- e) Define metrics for maintenance? [2M]
- f) What is Productivity metrics? [2M]
- g) What is Defect rate? [2M]
- h) What is Audit ad assessment? [2M]
- i) How measure process capability? [2M]
- j) What is function point metrics? [2M]

PART-B

(50 Marks)

2. Explain about the COCOMO Model with example? [10M]
- OR
3. Explain the product quality metrics? [10M]
4. Explain the rayleigh model assumptions and implementation [10M]
- OR
5. Explain run charts and effect diagram? [10M]
6. Explain metric for process and product? [10M]
- OR
7. Illustrate cyclometric complexcity syntactic metrics [10M]
8. Explain software process maturity assessment? [10M]
- OR
9. Explain a proponed software project assessment method? [10M]
10. What are dos and don'ts for software processes improvement? [10M]
- OR
11. Explain the activity levels of measuring process improvement? [10M]

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