Code No.: IT742PE

| R20 | H.T.No. | | | 8 | R | | | | | |

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV–B.TECH–I–Semester End Examinations (Supply) - December- 2025
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) What is Software Quality?   [2M]
   b) Define Quality management.   [2M]
   c) What is pareo diagram?   [2M]
   d) What is control chart?   [2M]
   e) Define Metrics for testing.   [2M]
   f) What are Quality metrics?   [2M]
   g) What are Availability metrics?   [2M]
   h) Define Customer outage.   [2M]
   i) What is Process maturity?   [2M]
   j) What is face decomplexification?   [2M]

PART-B   **(50 Marks)**

2. Explain about the concept of total quality management and summary.   [10M]
   OR
3. Demonstrate the reliability and validity in detail.   [10M]

4. Discuss about the rayleigh model.   [10M]
   OR
5. Illustrate about ishikawa's seven basic tools.   [10M]

6. Compare the metrics for design model and source code.   [10M]
   OR
7. Determine the quality and quality management metrics.   [10M]

8. Demonstrate the way of collecting customer outage data for quality improvement. [10M]
   OR
9. Elaborate the process of Conducting software project assessment.   [10M]

10. Explain about the process of establishing the alignment principles. [10M]
   OR
11. Explain how to measure the value of process improvement.   [10M]
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