Code No.: R22CS512PE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

III-B.TECH-I-Semester End Examinations (Regular) - December- 2024 SOFTWARE METRICS AND MEASURES

(CSE)

[Time: 3 Hours]	[Max. Marks: 60]
Note: This question paper contains two parts A and B. Part A is compulsory which carries 10 marks. Answer all questions it Part B consists of 5 Units. Answer any one full question from each carries 10 marks.	n Part A.
PART-A	(10 Marks

1. a)	Define Measurement.	£13.47
		[1 M]
b)	Write the scope for Software metrics.	[1M]
c)	What are the data normally used for software analysis?	[1M]
d)	List any four data analysis techniques.	[1M]
e)	Write the definition of Process and Product.	[1M]
f)	What is Function Points (FP)?	[1M]
g)	Define Software Quality Metrics.	[1M]
h)	What is Mean Time Between Failure (MTBF)?	[1M]
i)	Write a note on Problem Tracking Report model.	[1M]
j)	What is Defect Removal Efficiency (DRE)?	[1M]
	PART-B	50 Marks)
2.	Explain measurement and How will you measure a Software Code for a System	n? [10M]

3.	OR Describe the goal-based framework for software metric and the theory behind this.	[10M]
4.	Explain any statistical methods that are used for data collection and data analysis. Illustrate with example.	[10M]
	OR	

Identify the entities, attributes and possible measure in it.

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5.	What is the difference between quantitative estimation and qualitative estimation with	[10M]
	regard to the performance measurement of software? Give examples.	. ,

6.	Describe suitable schemes for measuring internal product size attributes.	[10M]
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7.	How the structure is used for measuring the product attributes? How the product	[10M]
	qualities are determined?	. ,

8.	Explain any four software quality metrics for process and products. How these values will be helpful for software engineers?	[10M]
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OR

9.	Discuss the metrics program as used in Motorola and IBM.	[10M]
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10.	Describe in detail about the Rayleigh's model in detail.	[10M]

OR

11. What is software reliability? Explain how the software reliability growth model is [10M] evaluated.
