Code No.: IT742PE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Regular) - November- 2024 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 operational.	[2M]
b)	Recall the total quality management.	[2M]
c)	Define a checklist in the context of software quality management.	[2M]
d)	Explain the purpose of a Histogram in quality analysis.	[2M]
e)	Define depth and complexity metrics for object-oriented software.	[2M]
f)	Explain the significance of quality metrics in quality management for softwa projects.	re [2M]
g)	Recall how data is collected to track customer outages?	[2M]
h)	Name a method used in conducting software project assessments.	[2M]
i)	Explain the importance of aligning software processes with organizational goals.	[2M]
j)	How does measuring process compliance help in process improvement?	[2M]
_		(50 Marks)
2.	Describe the COCOMO model and how is it used in software development?	[10M]
2	OR	C [103.6]
3.	How does software quality relate to total quality management? Give examples metrics program.	of [10M]
4.	Name any three tools from Ishikawa's Seven Basic Quality Tools and explain eactool.	ch [10M]
	OR	
5.	How does a Control Chart help in identifying variations?	[10M]
6.	Describe Syntactic Metrics and their role in evaluating software. OR	[10M]
7.	Discuss the significance of quality metrics in quality management for softwar projects.	re [10M]
8.	Describe the methods are used for software project agreement evaluation? OR	[10M]
9.	Define and explain the main purpose of conducting an audit in a software proje assessment with use case?	ect [10M]
10.	Describe the process maturity and explain the process capability. OR	[10M]
11.	Describe the function point metric and explain the key steps in establishing alignme in software processes.	nt [10M]
