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Roll	No.		Total No. of	FPages: 02
Tota	l No	o. of Questions: 08		J
	М.	Tech.(IT)E1 (2015 & Onwards)/(CSE Engg.)E (Sem.–2) SOFTWARE METRICS Subject Code : MTCS-203 Paper ID : [72887]	EI-I (2015 to	2017)
Time	: 3	Hrs.	Max. I	Marks: 100
1.	Atte	TION TO CANDIDATES: empt any FIVE questions out of EIGHT questions. h question carries TWENTY marks.		
Q1.	a)	What is measurement in software engineering? Discuss	the scope of so	oftware metrics.
	b)	What is meant by empirical investigation? What are values Explain planning and conducting investigations.	arious types of	` /
Q2.	a)	What is good data? How to collect good data? How to a data?	analyze softwar	re measurement (08)
	b)	Explain various statistical techniques for data collection	and analysis.	(12)
Q3.	a)	What is meant by internal product attributes? Explain any software.	various structu	ral measures in (10)
	b)	What are various aspects of software quality? Expla quality.	in how to me	asure software (10)
Q4.	a)	Explain parametric reliability growth model with the example.	ne help of su	itable software (12)
	b)	Explain the importance of operational environment in so	oftware reliabil	ity. (08)
Q5.	a)	What is the intent of object oriented metrics? Discuss va oriented metrics.	arious characte	ristics of object (10)
	b)	Compare and contrast LK suite and CK suite of metrics	for object-orie	nted systems.

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- Q6. a) What is the difference between static and dynamic object oriented metrics? Discuss with the help of suitable example. (10)
  - b) What is meant by Class Usage? How it can be measured in any object oriented software discuss with the help of suitable example? (10)
- Q7. a) Explain the distinguished characteristics of component-based metrics. (10)
  - b) Discuss any two component-based software metrics with the help of suitable example. (10)
- Q8. Explain the following:  $(5 \times 4)$ 
  - a) Measuring productivity
  - b) Tools in software measurement
  - c) Data structure metrics
  - www.FirstRanker.com d) Frequency distribution in software metrics

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