AU-208

B.C.A. Part-III (Semester-V) Examination

SOFTWARE ENGINEERING

Paper-5ST3

Tim	[Maximum Marks : 60		
N.B	s. :	(1) All questions are compulsory.	
		(2) Assume suitable data wherever necessary.	
		(3) Draw well labelled diagram wherever necessary.	
1.	(a)	What is software engineering? Explain the software characteristics.	6
	(b)	Explain the spiral model for software engineering.	6
		OR	
2.	(a)	Explain the Waterfall model for software engineering.	6
	(b)	Explain in detail software requirement analysis.	6
3.	(a)	Explain various issues in software cost estimation.	. 6
	(b)	Explain the terms:	
		(1) Software project planning	
		(2) Risk management.	. 6
		OR	
4.	(a)	Explain in detail COCOMO model.	6
ŀ	(b)	What is size estimation in software development?	6
5.	(a)	What is the need of problem partitioning? Explain with suitable ex-	ample. 6
	(b)	Explain the terms:	
		(1) Top-Down design	
		(2) Bottom-Up design.	6
		OR	
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6.	(a)	What are the various symbols in ER diagram? Explain it with suitable example.	6
	(b)	Why decision tree is necessary? Explain.	6
7.	(a)	Describe system documentation in detail.	6
	(b)	What is software project management? Explain.	6
		OR	
8.	(a)	Explain in detail OO programming and its advantages.	6
	(b)	Explain in detail resource management.	6
9.	(a)	Explain software quality management in detail.	6
	(b)	Explain the following terms:	
		(i) Quality Control (QC)	
		(ii) Quality Assurance (QΛ).	6
		OR	
10.	(a)	Explain tools and techniques of software quality management.	6
	(h)	Explain software quality parameters with their definitions	6