Roll No	0	Total No. of Pages : 3
	BT6/M11	8610
	Software Enginee	ring
	Paper—IT-354, Opr	inn—[]
Time : T	Inree Hours]	[Maximum Marks : 100
Note:	 Attempt FIVE questions in all, set from each unit. 	ecting at least ONE question
	UNIT—I	.*
l. (a)	What do you understand by-term *	Software Crisis' ? Explain.
(b)	List three software process metric	s and explain briefly. 6
(c)	Explain the working of spiral mod project is completed in each phase help of an example.	
2. (a)	Suppose a system for office automotical from requirements that there 0.5 KLOC, 1.5 KLOC, 2.0 KLOC respectively. Complexity and reliable Programmer's capability and expensive of nominal rating. Use COCO costand schedule estimates. Also estimates of different phases, Associations of different phases.	will be five modules of size, 1-0 KLOC, and 2-0 KLOC bility requirements are high; ience is low. All other factors MO model to determine the deutate the cost and schedule
(b)	Explain project scheduling and tra	
3. (a)	The MUSIC WORLD video casses from video cassette libraries. First	
8610	1	(Contd.)

cassettes ordered are being sold by the company, the ownich are present in the cassette master file. A valid	details of
then filed in the pending orders file and the customer	s details
are filed in the customer file. The orders are then procellecking for availability of the required quantity in the	essed by
availability file. The cassettes are then shipped to the along with the invoice and the cassette availability	libraries
updated. A copy of the invoice file is stored in the invi-	oice file,
Draw and explain the context level and first level DFI	D. 15
Describe briefly behavioral modeling.	5
What do you understand by software architecture	? How
alternate architecture designs are analyzed?	6
low data flow is mapped into a software architecture?	Discuss
in detail.	14
UNIT—III	•
Differentiale between white box and black how testing ap	pproach.
*	5
Write a program to find largest of three numbers. Designest cases for its boundary value analysis. Also develop a	gn set of decision
	4+4=11
Define validation resting.	4
Define reverse engineering and re-engineering. Diffe	rentiale
between the two.	3+3=6

(h) Define recovery testing, stress testing, performance testing, 9

What do you understand by debugging? What are various methods of it? Explain each briefly.

UNIT-IV

- (a) Define software reliability. Explain how it is related to :
 - failure intensity
 - (ii) fault density
 - (iii) MTTE.

(h)

(a)

(b)

(a)

(h)

(¢)

5.

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!1	(b)	What are CASE Tools ? For which phases of softw development, CASE tools are useful? Justify.		
	(a)	Explain statistical software quality assurance method.	16	
	(b)	Describe ISO 9000 quality stundards.		
	(c)	List and briefly explain important review guidelines:	fron	
		software quality viewpoint.	•	