[This q	uestion paper contains 2 printed pages.]	
4703	Your Roll No	
	B.Sc./III/NS	AS
	COMPUTER SCIENCE - Paper VI	
(Multimedia System and Application Operating System)		
	(Admissions of 1999 and onwards)	•
Time:	3 Hours Maximum Marks	: '38
(	(Write your Roll No. on the top immediately on receipt of this question paper.)	
	All questions are compulsory.	
1. (a)	Why is Software Engineering called a lay technology?	yered (3)
(b)	Explain CMM metrics.	(2)
(c)	What will roughly be the storage requirement a 15 seconds telephone quality audio clip.	t for
. (d)	Explain the concept of Pipes in Unix with a sui example.	table (2)
2. (a)	Testing often consumes more resources than other phase in software development. List major factors that make testing expensive.	any the (3)
(b)	Differentiate between "generative Graphics "cognitiveGraphics".	" & (3)
(c)	Write a nell script that takes a file name a comman line argument and reports whether a directry, file or neither.  P.T.	as a it is (2)

- 3. (a) Explain the key advantages of an iterativeevolutionary approach to software projects as compared to a linear approach. What might be the possible disadvantages? (5) (b) Explain how an analog audio signal is transformed into a digital signal. Explain the role of sampling. rate and quantization on the quality of the digital signal produced by this process. (3) (c) What is "inode" number of a file? (1)(d) Give UNIX command to start printing file 'F1' at line 12. **(1)** (a) Discuss three characteristics of an SRS. 4. (3) (b) What are the limitations of the cost estimation models? (2) (c) Define 'Refresh rate' of a VDU. (1)(d) What is a "Composite Video Signal"? (1)(e) If x = 11, y = 6 then find the exit status of the expression: [ x -gt 9 -a v -ne 3 ](1) (f) What will be the output of: (i) echo 'date' (ii) echo "date" (1) (g) Give UNIX command to list files in reverse order. (1)(h) Explain the importance of "Structurd Programming". (2)
  - (200)\*\*\*\*