Roll No.

## 322636(22)

## B. E. (Sixth Semester) Examination, 2020

(Old Scheme)

(CSE, IT Branch)

(Elective-I)

## ADVANCED OPERATING SYSTEM

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) is compulsory of each questions.

Attempt any two parts from (b), (c) and (d)

## Unit-I

- 1. (a) Give an example of distributed OS.
  - (b) What do you mean by resource sharing? What are the challenges in designing distributed OS? 7

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	(c)	De	scribe memory managemen	t in Unix operating		
		sys	tem.			
	(d) Write short notes on :					
		(i)	Process management in Un	ix a mar Ji Bili		
		(ii)	Meaning of following unix	commands		
			cp, mv, ftp, tar			
			Unit-IV			
4.	(a)	Wł	nat is IP CONFIG command	d?		
	(b)	b) Explain windows OS architecture in detail.				
	(c)	Explain I/O and Process management in windows O.S.				
	(d)	Wr	rite short notes on:			
		(i)	Windows programming env	ironment tools		
		(ii)	Windows administrative too	ols		
Unit-V						
5.	(a)	De	fine process management.			
	(b)	Ex	plain system call for Unix O	S		

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	(c) Explain distributed file system with suitable diagram	. 7				
	(d) Define following terms:	7				
	(i) Process and thread					
	(ii) Domain name systems					
	(iii) X.500 directory service					
	Unit-II					
2.	(a) What is Digital Signature?	2				
	(b) Describe data encryption techniques in detail	7				
	(c) Explain distributed algorithm design principle by					
	considering coordination issues.	7				
	(d) Write short notes on:	7				
	(i) Public key and private key					
	(ii) Interaction models					
Unit-III						
3.	(a) What is Shell?	2				
	(b) Explain internal architecture of UNIX.	7				

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