Code: IT5T1

## III B.Tech - I Semester – Regular/Supplementary Examinations October - 2019

## UNIX (INFORMATION TECHNOLOGY)

Duration: 3 hours Max. Marks: 70

PART - A

Answer all the questions. All questions carry equal marks

11x 2 = 22 M

1.

- a) Highlight the difference between \$echo date and \$echo `date` commands.
- b) How would you show the use of wildcards in UNIX O.S.?
- c) What is the main idea behind tar command in UNIX?
- d) Illustrate the various redirection operators available in UNIX?
- e) What is meant by positional parameter? How it can be correlated with command line argument?
- f) Outline the difference between system call and library function.
- g) Write syntax of stat() function.
- h) What functions can you find to retrieve process identifiers?
- i) How waitpid() is differ from wait()?
- j) State importance of alarm() and pause().
- k) What is meant by signal disposition?

## PART - B

Answer any *THREE* questions. All questions carry equal marks.  $3 \times 16 = 48 \text{ M}$ 

2. a)	Wha	at would	d be the	e resp	onse of U	UNIX 1	for th	e follow	/ing
ŕ	com	mands	•	•					
	i)	du		ii)	mount		iii)	tee	
	iv)	ps							8 M
b)	Exp	lain bri	efly the	e imp	ortance c	of grep	fami	y with s	suitable
	exan	nples.							8 M
3. a)	Write a shell script to display the type of file using file test								
	ope	rators.							8 M
b)	Write a shell script to count no of lines and characters in a								
	give	en file.							8 M
4. a)	Exe	mplify 1	followi	ng sy	stem cal	ls:			
ŕ	i) rea	ad()		•		ii) v	vrite()	)	
	iii) l	seek()							8 M
b)	Wri	te a pro	gram t	o sim	ulate 'cp	' comn	nand	using fi	le
	han	dling fu	inction	S.	•			-	8 M

5. Illustrate how vfork() and exec() functions changes the flow of execution with suitable example program. 16 M

- 6. a) What is meant by Inter Process Communication? Dissect pipe() function. 8 M
  - b) Write a C program to provide IPC between parent and child processes using pipe(). 8 M