

BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme - Master of Science in Hardware and Networking

Course Name – Operating System Technologies

Course Code – MCSE010604

(Semester - 1)

Time allotted: 3 Hours

Full Marks: 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group –A

	(Multiple Choice Type Question)		10 x 1 = 10
1.	Choose the correct alternative from the fo		
(i)	The Taskbar runs along the	of all windows desktops.	
	a. top	b. left	
	c. bottom	d. right	
(ii)	Operating System is a type of	Software.	
	a. Application	b. System	
	c. Utility	d. None of the above	
(iii)	A process is a		
	a. Basic entity	b. Passive entity	
	c. Static entity	d. Active entity	
(iv)	Users communicate with Linux through		
	a. shell	b. kernel	
	c. applications	d. all of the above	

(v) The state of a process after it encounters an I/O instruction is					
	a. Ready	b.	Waiting/Blocked		
	c. Running	d.	Idle		
(vi)	The BIOS code is built into the				
	a. Hard Disk	b.	RAM		
	c. Motherboard	d.	None of the above		
(vii)	is the default location to	store files a	nd folders in windows OS.		
	a. My Documents	b.	C Drive		
	c. Control Panel	d.	Program Files		
(viii)	is the tool for managing de	evice driver			
	a. System Tool	b.	Command Prompt		
	c. Device Manager	d.	Administrative Tool		
(ix)	window shows application	errors.			
	a. Safe Mode	b.	Event Viewer		
	c. Task Manager	d.	All of the above		
(x)	TCP/IP reference model has	layers			
	a. Three	b.	Four		
	c. Six	d.	Seven		
	(Group – H	3		
	(Short Ans	swer Type	Questions)	3 x 5 = 15	
Answe	er any three from the following				
2.a	Explain Device Management functi	on of OS.		2	
b	Explain File Management Function	of OS		3	
3.	Explain RTOS and its types			5	
4.	Write about the various editions of	5			
5.a	Define BIOS.			2	
b.	Explain the POST process of BIOS			3	
6.	Explain multiprogramming batch pr	rocessing of	perating system.	5	

Group – C

		(Long Answer Type Questions)	$3 \ge 15 = 45$
Ansv	wer ai	ny three from the following	
7.	(a)	Explain any five functions of operating system.	10
	(b)	Explain RTOS with its types.	5
8.	(a)	Why operating system generates a System call? Explain fork() and exect)system call.	3+5
	(b)	What is the difference between orphan and zombie process. Write a prog in C to implement orphan process.	ram 4+3
9.	(a)	Write a shell program to find whether a number is leap year or not.	5
	(b)	Explain the difference between ls,ls –l and ls –a with suitable example.	6
	(c)	Explain the difference between rm and rm –r with suitable example.	4
10	(a)	What are the various types of guided transmission media?	5
	(b)	Explain unguided transmission media.	4
	(c)	Explain baseband and broadband topology	6
11.	(a)	Explain the various network topologies.	8
	(b)	Explain IP addressing in a computer network.	7
