

Course – B.Sc. (HN)

Basic Hardware and Operating System-II (BHN203)

(Semester - 2)

Time	Ful	Full Marks: 70			
[The		marks. Candidates are required to give their ords as far as practicable.]	answers in		
		Group -A			
	(Multiple Choice Type Questions)				
1. (i)					
	c. +3.3V DC	d. None of these			
(ii)	(ii) Which are the sub pixels that make an individual pixel in a colour monitor?				
	a. Red, Green, Black	b. Red, Green, Cyan			
	c. Red, Green, Blue	d. Red, Green, Orange			
(iii)	RAID-0 level supports				
	a. Simple Volume	b. Spanned Volume			
	c. Striped Volume	d. Strip set with parity			
(iv)	oorts PWR_OK signal?				
	a. Red wire	b. Green wire			
	c. Brown wire	d. Black wire			
(v)	The +24V DC voltage in Dot Matrix Printer drives				
	a. Print solenoid drive	b. Buzzer board			
	c. Paper feed motor	d. None of these			

- (vi) Which of the following sensor is responsible for detecting the internal temperature of print head?
 - a. Print timing sensor

b. Motor temperature sensor

c. Paper end sensor

- d. Head temperature sensor
- (vii) Which of the following topology is using a central node to communicate?
 - e. Bus topology

f. Star topology

g. Mesh topology

- h. None of these
- (viii) Maximum how many drives can you create under basic disk format?

		a. 4	b. 127		
		c. 128	d. 24		
(ix) T	'he size of 'cell' is			
		a. 53 Byte	b. 53 KB		
		c. 153 Byte	d. 153 KB		
(w)	۱ (۱	DSL' stands for	u. 133 KB		
(\mathbf{x})) 1	DSL stands for			
		a. Digital Station Link	b. Distributed Subscriber Line		
		c. Dual Subscriber Line	d. Digital Subscriber Line		
			Group – B		
		(Short A	Answer Type Questions)	3 x 5 = 15	
Ans	wer a	ny three from the following			
2.		Draw a neat diagram of CRT monitor with proper labelling.			
3.		Define 'Dial-up Networking'	[5]		
4.	(a)	Discuss the features of 'Grap	•	[2]	
5.	(b) (a)	•	unism is helpful in disk management?	[3] [3]	
٥.	(b)	,			
6.	(a)				
	(b)		te the video signal processing?	[3] [2]	
			Group – C		
		(Long	Answer Type Questions)	3 x 15 = 45	
Ans	wer a	ny three from the following			
		Draw the block diagram of ATX-SMPS with proper labelling.			
	(b)	Explain each section of ATX	-SMPS.	[10]	
8.		· ·	of sensors and driver motors of Dot		
0	()	Matrix Printer.		[15]	
9.	(a)	Discuss the roles of the follow Coaxial, Twisted Pair, Optica	<u> </u>	[10]	
	(b)	Define 'Cell Topology'.	[5]		
10.	(a)	Compare between EIA/TIA 5	668A and EIA/TIA 568B.	[3]	
10.	(b)	Write a short note on ISDN and Leased Line technology.			
	(c)	Discuss the SAN technology.		[4] [5]	
11.	(a)	Write a short note on 'Postscript' and 'Printer Command Language'.			
	(b)	<u> </u>			
	(c)	Distinguish between 'Ho frequency'.	rizontal frequency' and 'Vertical	[5]	
