## CMP\_510\_Computer System Architecture\_Sem\_4\_Jan19\_Exam

Marks: 80

## P131/CMP510/EE/20190211

Time: 3 Hours

Instru	tions:				
1. A	l Questions are Compulsory.				
2. E	ch Sub-question carry 5 marks.				
	Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.				
4. Ç	Question paper of 80 Marks, it will be converted in to your programme structure marks.				
1. S	Solve any <b>four</b> sub-questions.				
a	Define the terms cache hit and cache miss.	5			
b	State any four Bluetooth features.	5			
c	Describe the construction and working of resistive touch screen display.	5			
d	With suitable diagram explain zone recording.	5			
e	With neat diagram, describe video accelerator card.	5			
2. S	lve any <b>four</b> sub-questions.				
a	Write difference between PCI with PCI-express bus.	5			
b	Explain four features of USB.	5			
c	What is modem? Explain working of external modem with suitable diagram.	5			
d	List any four firewire features.	5			
e	Explain following terms related to hard disk-cluster, cylinder, sector, landing zo	one. 5			
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3.	Solv	ve any <b>four</b> sub-questions.	×C
	a)	Describe Modified Frequency Modulation (MFM) technique of recording w suitable example.	ith 5
	b)	With the help of diagram explain the working of online UPS.	5
	c)	List different types of key switches in keyboard. Explain the working principle of a one in detail with neat diagram.	ny 5
	d)	Write any two modes of operation of CPU.	5
	e)	What is the difference between pipelining processing and parallel processing?	5
		40	
4.	Solv	ve any <b>four</b> sub-questions.	
	a)	Explain BGA workstation and its application.	5
	b)	Explain Characteristics of CRT Monitor.	5
	c)	Write a difference between FAT 16, FAT 32.	5
	d)	With block diagram describe the working of SMPS.	5

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What are the symptoms of power supply problem?

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