

CMP_510_Computer System Architecture_Sem_4_Jan19_Exam

P131/CMP510/EE/20190211

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
2. Each Sub-question carry 5 marks.
3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
4. Question paper of 80 Marks, it will be converted in to your programme structure marks.

1. Solve any **four** 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. Solve any **four** 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 zone. 5

3. Solve any **four** sub-questions.

- a) Describe Modified Frequency Modulation (MFM) technique of recording with suitable example. 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 any one in detail with neat diagram. 5
- d) Write any two modes of operation of CPU. 5
- e) What is the difference between pipelining processing and parallel processing? 5

4. Solve any **four** 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
- e) What are the symptoms of power supply problem? 5

