

COMILLA UNIVERSITY
Faculty of Engineering
Department of Computer Science & Engineering
3rd Year 2nd Semester Final Examination-2015
Session: 2012-2013 Course Code: CSE-321
Course Title: Computer Peripherals and Interfacing

Marks: 30

Time: 2 Hours

N.B.- (i) Answer any Two questions from each Part; (ii) Figures in the right margin indicate full marks.]

Computer Peripherals

1. (a) What do you mean by computer peripherals? List some common peripherals. 2
- (b) Give the main characteristics of address bus, data bus and control bus of the CPU of a microcomputer. 3
- (c) What are the key disk parameters that determine disk performance? Give the characteristics of PCI bus system. 2.5
2. (a) List the different types of keyboard. Describe the mechanism of Dome-switch keyboard. 3
- (b) Consider a Core i7-2620M fixed disk drive, which total cylinders 121601, 63 Sectors/Track, 255 Heads. Calculate typical capacity of this disk. 1.5
- (c) Describes a SCSI adapter with block diagram. 3
3. (a) Differentiate between VGA and SVGA card. 1.5
- (b) Can we use multiple monitors on one system? Justify your answer. 1.5
- (c) Describe the advantages of USB technology over serial and parallel port. 1.5
- (d) Write short notes on following topics: 3*1
 - i) Static Encoder
 - ii) Laser Printer
 - iii) Twisted pneumatic LCD

Interfacing

4. (a) Why AEN signal is needed? Write the direction of data flow when DMA write I/O performed. 2.5
- (b) Describe the I/O port write bus cycle with figure. 3
- (c) What is the difference between Peripheral I/O and memory mapped I/O. 3
5. (a) Define interfacing. Describe interfacing 2732 EPROM with 8085 microprocessor. 2
- (b) Draw the block diagram of an interface design. 2.5
- (c) Describe interfacing microcontrollers to external memory. 2.5
6. (a) Describe the application of 8255 in HANDSHAKING mode. 2.5
- (b) Describe in detail various types of interrupt. 2.5
- (c) List advantages and disadvantages of memory mapped I/O and isolated I/O. 2.5