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University of Barishal
Department of Computer Science and Engineering
Course Title: Peripherals and Interfacing
Course Code: CSE-3101
3rd Year 1st Semester Final Examination-2019
Session: 2016-2017

Time: 3 Hours

Marks: 60

N.B.: Answer any FIVE questions out of the followings. All parts of each question must be answered consecutively. Right side of the question shows the maximum marks.

1. a) What is Interface? Briefly explain different types of Interfaces. [5]
b) What do you mean by Computer peripheral? List down the input and output Peripherals. [2]
c) Differentiate between off-line and on-line peripherals. [2]
d) Write short note on Universal Serial Bus. [3]
2. a) How I/O port address allows the software drivers to communicate with hardware devices on computer. [4]
b) Explain the I/O interface from serial to parallel and parallel to SCSI converter. [4]
c) Discuss the role of input /output drivers for UNIX / LINUX operating system. [4]
3. a) List various I/O data transfer techniques. Make brief explanation about their relative merits/demerits. [4]
b) Describe the basic feature of different types of MIDI messages. Mention the basic application of MIDI. [5]
c) What is MIDI along with its port? What are the pros /cons of MIDI? [3]
4. a) 8255 operates in three operational modes: Mode 0, Mode 1, Mode 2. Explain them with right control word. [7]
b) Draw the block diagram of 8255 architecture. Write down the port functions of 8255. [5]
5. a) Write down prominent features including advantages, disadvantages and real time applications of OMR/ OCR/ MICR. [6]
b) Make comparative discussion about laser printer and dot matrix printer. [4]
c) What do you mean by cycle stealing in DMA? [2]
6. a) What is Aspect ratio and viewable area? [2]
b) Working procedure of plasma display monitor. [4]
c) How does work Bluetooth mouse and wireless mouse? [4]
d) Write short notes on the Hall effect keyboard. [2]

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7. a) Compare Memory-mapped I/O with peripheral I/O. [3]
b) What is Barcode Reader? Define and identify the following barcode structure. [5]



- c) Define check digit. Using the following code determines the check digit. [4]
"93000283936"

8. a) Define printer. What are the basic technologies of Printer? [3]
b) Briefly explain the inkjet printer printing process. [5]
c) Define Drum scanner and Digital camera Scanner. How CCD array works inside a scanner? [4]