III/IV B.Tech. (Supple) DEGREE EXAMINATIONS, JUNE- 2019
First Semester
COMPUTER SCIENCE ENGINEERING
ADVANCED MICROPROCESSORS

Time: Three Hours   **Maximum marks:60**

Answer Question No.1 Compulsory	**6X2=12 M**
Answer ONE Question from each Unit	**4X12=48 M**

1. a) Mention different Control Registers in 80386

    b) Demultiplexing the Buses

    c) Characteristic features of Static RAM

    d) BIOS

    e) Characteristic of Video hardware

    f) Purpose CMOS RAM

UNIT-I

2. a) Explain in detail the coding template for 8086 MOV instruction?

    b) Write briefly about PUBLIC directive and EXTERN directive?

(OR)

3. Give a brief on Instruction format of 80286. Explain different addressing modes in 80286 architecture. Explain each of them with suitable example.

UNIT-II

4. Explain the memory system and Memory Management in Pentium. Elaborate on Paging Unit and Memory-Management Mode.

(OR)

5. Explain Basic 80486 Architecture and its Memory System.

P.T.O

UNIT-III

6. Explain major motherboard components and their functions. Elaborate on Peripheral Component Interconnect and Accelerated Graphics Port exploring their purpose.

(OR)

7. a) Explain different types of buses, their functions.

   b) Give a brief on multimedia.

UNIT-IV

8. Describe the purpose of IDE interface. Explain the magnetic storage principles and give a brief hard disk storage and floppy disk storage.

(OR)

9. Give a brief on

   a) PC diagnostics

   b) Testing and Maintenance

III/IV B.Tech. DEGREE EXAMINATIONS, NOVEMBER- 2019
First Semester
COMPUTER SCIENCE ENGINEERING
ADVANCED MICROPROCESSORS

Time: Three Hours   **Maximum marks:60**

Answer Question No.1 Compulsory   **6X2=12 M**
Answer ONE Question from each Unit   **4X12=48 M**

1. a) Specify the size of data, address, memory word and memory capacity of 8086 microprocessor.

    b) Give interrupt structure of 8088 microprocessor

    c) What is memory segmentation?

    d) Mention important features of Pentium pro

    e) Give function principle of any two input devices

    f) IDE interface

UNIT-I

2. a) Explain the concept of Protected mode in 80286 processor.

    b) List and explain all ASCII related instructions in 8086 with examples.

(OR)

3. a) Elaborate on the differences between 80286 CPU and 80386 CPU.

    b) Discuss how pipelined architecture is implemented in 8086.

UNIT-II

4. Draw the data and instruction cache of Pentium processor and explain its operation.

P.T.O

<div align="center">**(OR)**</div>

5.   a)   Explain the concept of fast floating point unit of Pentium processor in detail.

       b)   Explain how memory management is done in Pentium processor.

UNIT-III

6.   a)   Explain the system layout of a personal computer.

       b)   Give a brief on BIOS and Buses with its variants.

<div align="center">**(OR)**</div>

7.   Write a short notes on the following:

       a)   SCSI   b)   CD-ROM   c)   Multimedia

UNIT-IV

8.   a)   Give a brief on Magnetic storage principles and explain the organization of hard disk, floppy disk storages.

       b)   Write a short notes on PC diagnosis.

<div align="center">**(OR)**</div>

9.   a)   Explain virtual audio device and elaborate on how it be used to interface with its audio hardware.

       b)   Give the steps in physical device installation and configuration.