

**QUESTION BANK****COMPUTER ARCHITECTURE AND ORGANIZATION****Class - II CSE - B - II Sem****UNIT -I**

- 1) a) Explain the Functional unit of a computer - 5 M  
b) Explain the Basic Operational concepts of a Computer - 5 M
- 2) a) Explain about Bus structures -5 M  
b) Explain about the System Software. - 5 M
- 3) a) How to calculate the Performance of a computer Explain. - 5 M  
b) Explain the history of computer development. - 5 M
- 4) a) Explain the Functional unit of a computer - 5 M  
b) Explain about Bus structures - 5 M
- 5) a) Explain about the System Software. - 5 M  
b) How to calculate the Performance of a computer Explain. - 5 M

**UNIT -II**

- 1) a) Explain about the Register Transfer Notation - 5 M  
b) Explain about Assembly Language Notation - 5 M
- 2) a) Explain the Basic Instruction Types - 5 M  
b) Explain the different Addressing Modes -5 M
- 3) a) Explain about Basic Input/output Operations - 5 M  
b) Explain the role of Stacks and Queues in computer programming equation - 5 M
- 4) a) Explain about Logic Instructions - 5 M  
b) Explain about shift and Rotate Instructions - 5 M
- 5) a) Explain the Basic Instruction Types - 5 M  
b) Explain the role of Stacks and Queues in computer programming equation - 5 M

**UNIT -III**

- 1) a) Explain about Arithmetic Instructions. - 5 M  
b) Explain about Logic Instructions. - 5 M
- 2) a) Explain about Branch Instructions. - 5 M  
b) Explain about Different Addressing modes - 5 M
- 3) a) Explain about Diff input output operations - 5 M  
b) Explain about Different Addressing modes - 5 M
- 4) a) Explain about Arithmetic Instructions. - 5 M  
b) Explain about Branch Instructions. - 5 M

- 5) a) Explain about Logic Instructions. [www.FirstRanker.com](http://www.FirstRanker.com)  
b) Explain about Different Addressing modes.

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- 5 M

#### **UNIT -IV**

- 1) a) Explain about Accessing I/O Devices - 5 M  
b) Explain about Interrupt Hardware - 5 M  
2) a) How do you Enabling and Disabling Interrupts - 5 M  
b) How do you handle Multiple Devices - 5 M  
3) a) Explain about Direct Memory Access - 5 M  
b) Explain about Synchronous Bus - 5 M  
4) a) Explain about Asynchronous Bus - 5 M  
b) Explain about Interface Circuits - 5 M  
5) a) Explain about Peripheral Component Interconnect (PCI) Bus - 5 M  
b) Explain about Universal Serial Bus (USB) - 5 M

#### **UNIT -V**

- 1) a) Explain about Basic memory circuits - 5  
b) Explain about Memory System Consideration M  
- 5  
M  
2) a) Explain about ROM - 5 M  
b) Explain about PROM - 5 M  
3) a) Explain about EPROM - 5 M  
b) Explain about EEPROM - 5 M  
4) a) Explain about Flash Memory - 5 M  
b) Explain about Mapping Functions - 5 M  
5) a) Explain about Magnetic Hard Disks - 5 M  
b) Explain about Optical Disks - 5 M

#### **UNIT -VI**

- 1) a) Explain about Register Transfers - 5 M  
b) How to Perform Arithmetic Operations? Explain. - 5 M  
2) a) How to Perform Logic Operations ?Explain. - 5 M  
b) How to Fetch A Word From Memory? Explain. - 5 M  
3) a) Explain Execution of Complete Instruction - 5 M  
b) Explain about Hardwired Control - 5 M  
4) a) Explain about Microinstructions - 5 M  
b) Explain about Micro program Sequencing - 5 M  
5) a) Wide Branch Addressing Microinstructions with next –Address Field - 5 M  
b) Explain about Microinstructions - 5 M