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# CS3351 DIGITAL PRINCIPLES AND COUMPUTER ORGANISATION

IMPORTANT QUESTIONS

# UNIT - I COMBINATIONAL LOGIC

### <u>2 – Mark</u>

- 1. What is Combinational Circuits?
- 2. Define Analysis and Design Procedures.
- 3. What is Binary Adder?
- 4. Define Subtractor
- 5. What is Decoder?
- 6. What is Demultiplexers?

### <u> 13 - Mark</u>

- 1. Describe Karnaugh Map.
- 2. Explain Decimal Adder.
- 3. Describe Magnitude Comparator.
- 4. Write about Encoder with detailed reference.
- 5. Explain Multiplexers.

# UNIT - II SYNCHRONOUS SEQUENTIAL LOGIC

#### <u>2 – Mark</u>

- 1. What is Sequential Circuits?
- 2. Define operation and excitation tables
- 3. Write the Design of Synchronous Sequential Logic.
- 4. Define Moore/Mealy models.
- 5. Write about state minimization.
- 6. What is state assignment?
- 7. Define circuit implementation.

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### <u> 13 - Mark</u>

- 1. Explain Flip-Flops.
- 2. Write about Triggering of FF with detailed reference.
- 3. Describe Analysis and design of clocked sequential circuits.
- 4. Differentiate state minimization & state assignment.

# **UNIT - III COMPUTER FUNDAMENTALS**

# <u>2 - Mark</u>

- 1. What is Von Neumann Architecture?
- 2. What is the Operation of Computer Fundamentals?
- 3. Write the Addressing Modes of Computer Fundamentals.
- 4. State Encoding of Machine Instruction.
- 5. What is the Interaction between Assembly and High Level Language?

# <u> 13 - Mark</u>

- 1. What are the Functional Units of a Digital Computer?
- 2. Describe the Operation and Operands of Computer Hardware Instruction.
- 3. Write about Instruction Set Architecture (ISA) with detailed reference.
- 4. Describe Instruction and Instruction Sequencing.

# UNIT – IV PROCESSOR

# <u>2 - Mark</u>

- 1. Write the Instruction Execution Processor.
- 2. Define Building a Data Path –
- 3. Write about Hardwired Control.
- 4. Define Pipelining

# <u> 13 - Mark</u>

- 1. Describe Designing a Control Unit.
- 2. Write about Microprogrammed Control detailed reference.
- 3. Differentiate Data Hazard & Control Hazard

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#### UNIT - V MEMORY AND I/O

#### <u>2 - Mark</u>

- 1. What are memory Concepts?
- 2. Write about Memory Management.
- 3. Define Mapping and replacement techniques.
- 4. What is DMA?
- 5. Define interrupt I/O.
- 6. What is USB?

#### <u> 13 - Mark</u>

- 1. Explain memory Concepts and Hierarchy.
- 2. Describe Cache memories.
- 3. Explain virtual memory.
- 4. Describe Accessing I/O.
- 5. Write about interconnection standards with detailed reference

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