Question Bank

Class-: SYCSE

Subject: Computer Organization

Revised Syllabus- 2017-18 P-II

Unit-1 Introduction

2 Marks Questions

1. Write the twos complement of -3 and -6.

2. What is the use of Booth's algorithm?

3. Write the 1's complement and 2's complement respectively of the following nos: 9,6,-42,-27

4. Draw the flow chart of Booth's algorithm.

5. What is Computer Organization?

6. What is Computer Architecture?

7. Minuend is 2 & subtrahend is -3. Perform the 2's complement subtraction.

8. What is A, M, Q and Q0 in Booth's algorithm?.

7/8 Marks Questions

1. Write short note on Booth's algorithm.

2. Multiply 7 with 5 with the help of Booth's algorithm.

Unit-2 Processor

2 Marks Questions

1. Draw the diagram of CPU with internal bus.

2. Draw the diagram of processor organization.

3. What is instruction cycle, machine cycle and T-state?.

4. Draw the architecture of Pentium IV processor.

7 Marks Questions

1. Draw the diagram of processor organization and explain it in detail.

2. Draw the diagram of processor organization. Explain the processor's operation in detail.

Unit-3 Control Unit Design

2 Marks Questions

1. Write the long form of RISC and CISC.

2. Write any 2 differences between RISC and CISC

3. Write any 2 diferrences between Hardwired Control Unit and Microprogrammed Control Unit.

7 Marks Questions

1.   Explain microprogrammed control unit in detail.

2.   Explain Hardwired control unit in detail.

3.   Differentiate between RISC and CISC.

Unit-4 Memory Organization

2 Marks Questions

1. Enlist different mapping techniques of cache memory.

2. Enlist different replacement algorithms of cache memory.

3. Draw memory hierarchy.

4. What are the different levels of cache memory.

5. What is cache hit and cache miss?

6. What is the principle of Locality of Reference (cache memory)?

7 Marks Questions

1 Write short note on Cache memory.

2. Write short note on virtual memory.

3. Explain Cache memory mapping with main memory.

Unit-5 Pipelining

2 Marks Questions

1. What are the different pipelining hazards?

2. What is stalling?

3. Define pipelining.

7 Marks Questions

1. What is pipelining? Explain all the hazards of pipelining.

2. What is pipelining? What are the different advantages and disadvantages of pipelining?

Unit-6   Advanced Processors

2 Marks Questions

1.Write any 2 features of Intel Core 2 Duo.

2. Write any 2 features of Dual Core.

3. List diffrenet Processors.

7 Marks Questions

1. Compare intel Core 2 Duo, Dual Core & Core i3 processors.