

B.C.A. Sem.-3 Examination**CC-201****Computer Organization & Advanced Microprocessor (Old Course)****Time : 2-30 Hours]****October-2024****[Max. Marks : 70**

- Q1 Answer the Questions in detail**
- i What is Computer Organization? 7
 - ii Explain Difference Between Main Memory and Auxillary Memory. 7
- OR**
- i Explain Bus Concept in detail. 7
 - ii Explain RTL with Basic Symbols and Mathematical and logical Symbol. 7
- Q2 Answer the Questions in detail**
- i Explain Only Universal Gates in detail. 7
 - ii Explain SR Flip-flop in detail. 7
- OR**
- i Explain Half adder in detail. 7
 - ii Explain 2 to 4 Decoder in Detail. 7
- Q3 Answer the Questions in detail**
- i Classification of Memory Explain Functional Memory in detail. 7
 - ii What is Cache Memory explain Cache Principle and Cache Hit and Miss . 7
- OR**
- i What is Mapping Explain Direct Mapping in detail? 7
 - ii Explain Cache Replacement in detail. 7
- Q4 Answer the Questions in detail**
- i Explain RISC and SISC Processor. 7
 - ii Draw and Explain PIN Diagram of 8086 in Minimum Mode . 7
- OR**
- i Explain Scalar, Superscalar and Vector Processor in detail. 7
 - ii Explain Addressing Mode of 8086. 7
- Q5 Answers the following question (any 14) 14**
- 1 List the Peripheral Devices use as an I/O device.
 - 2 Full form of MBR is _____
 - 3 Which are the Different Two Types of Interrupts?
 - 4 In _____ Number Representation all numbers represented as integer or fraction.
 - 5 _____ Is used to convert Decimal Data to a code such as binary or BCD.
 - 6 List the Different types of Mapping.
 - 7 In _____ Memory Data is lost when the power is switched off.
 - 8 Full form of AMD.
 - 9 List 64 Bit Microprocessors.

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- 10 _____ Processors contain several Processing Elements.
- 11 List the General Purpose Registers in 16 bit.
- 12 _____ gate is used as a Complement Gate.
- 13 In T Flip-Flop T means what?
- 14 Full form of DRAM.
- 15 In JK Flip Flop $J=1$ and $K=1$ it will produce same output in Q and Q' (True/False).
