



Enrollment No. FN21CS303029

Faculty of Engineering

Mid Sem I Examination Sep- 2022

CS3CO34 Computer System Architecture

Programme: B.Tech.

Branch/Specialisation: CSE

Duration: 2 Hrs.

Maximum Marks: 40

- Q.1
- i. To reduce the memory access time we generally make use of _____ 1
 - a) SDRAM's
 - b) Heaps
 - ~~c) Cache's~~
 - d) Higher capacity RAM's
 - ii. Speedometer is an example of _____ computer 1
 - a) Digital
 - ~~b) Analog~~
 - c) Hybrid
 - d) all of these
 - iii. Batch processing was mainly used in this generation? 1
 - ~~a) First~~
 - b) Second
 - c) Fourth
 - d) Third
 - iv. The main virtue for using single Bus structure is _____ 1
 - a) Cost effective connectivity and speed
 - b) Fast data transfers
 - ~~c) Cost effective connectivity and ease of attaching peripheral devices~~
 - d) None of the mentioned
 - v. Computers use addressing mode techniques for _____ 1
 - a) giving programming versatility to the user by providing facilities as pointers to memory counters for loop control
 - b) to reduce no. of bits in the field of instruction
 - c) specifying rules for modifying or interpreting address field of the instruction
 - ~~d) All the above~~
 - vi. _____ register keeps track of the instructions stored in program stored in memory. 1
 - a) AR (Address Register)
 - b) XR (Index Register)
 - ~~c) PC (Program Counter)~~
 - d) AC (Accumulator)

- vii. During instruction execution, an instruction is read into an _____ in the processor 1
- a) Memory buffer register (MBR) ~~b) Instruction register (IR)~~
c) Address register (AD) d) index register (IR)
- viii. The disadvantage of the immediate addressing is that the size of the number is restricted to the size of the 1
- a) Operand field ~~b) address field~~
c) Modes d) registers
- ix. The operation is specified by a binary code, known as the 1
- ~~a) operation code or opcode~~ b) source operand reference
c) result operand reference d) None of them
- x. The time period of third generation computer is..... 1
- a) 1959-1965 b) 1946-1959 ~~c) 1965-1971~~ d) 1969-1975
- Q.2 i. What do you mean by microoperations. Name the microoperations are used in computer system. 2
- ii. Write about the functional units of a computer. 3
- iii. Explain Bus structure with its types. 5 ^u
- OR iv. List out the applications of Logic microoperations. 5
- Q.3 i. Write Short Note on : 1) Instruction Cycle 2) Instruction Code 4
- ii. Explain types of computer instruction. 6 ^{5.5}
- OR iii. Describe addressing modes 6
- Attempt Any Two
- Q.4 i. Write the differences between Computer organisation and Computer Architecture. 5
- ii. Illustrate Processor registers in computer organisation. 5
- iii. What do you mean by Assembly languages. Explain two pass assembler working. 5 ^u
