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G. H. Raisoni College of Engineering and Management, Pune. (An Autonomous Institution Affiliated to Savitribai Phule Pune University) S.Y B. Tech (Computer) (Term-III) Vacation Exam Winter-2020 (2019 Pattern) COMPUTER ARCHITECTURE & ORGANIZATION (BCOL19201)

[Time: 1.5 Hours]

[Max. Marks 30]

COURSE OUTCOME:

- 1. Describe fundamental units of Computer System
- 2. Analyze organization and design of memory system
- 3. Identify different ways of communicating with I/O devices and interfaces
- 4. Analyze the working of serial and parallel system

instructions to the candidates:

- 1) (CO1/CO2/CO....)at the beginning of question/sub question indicates the course outcome related to the question.
- 2) All questions compulsory.
- Neat diagrams must be drawn wherever necessary. 3)
- Figures to the right indicate full marks. Assume suitable data, if necessary.
- CO1 a) Draw and explain in details Instruction execution Cycle? [5] List out Addressing mode and explain any 4 modes with examples? a) [5] Demonstrate Booths multiplication for given example? e.g. (-6*3) CO2 b) [4] Solved example using Single and double precision (10.125)2? c) [4] Differentiate between Hardwired and micro programmed control unit? CO3 a) [4] Draw and explain working of Symmetric multiprocessor? b) [4] Describe and explain working of RISC processor? CO4 a) [4]