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SE-Sem-II CCB.	SGS) IT-	COA	15/12/16
computer.	organization Avehitecture	QF Code:549	803
and	Avenifecture		

## MAX MARKS:80

TIME:03 HRS

- N.B. 1. Question No 1 is compulsory.
  - 2. Solve any three questions out of remaining five questions.
  - 3. Assume suitable data if necessary.
- Q. 1. Solve any four out of five.

4\*5=201

- a. What are the major requirements of I/O module?
- b. Draw the flowchart of non-restoring division algorithm and explain the same.
- c. With the help of diagram, explain Von-Neumann architecture.
- d. Compare SRAM & DRAM.
- e. Note on pipeline hazards.
- Q. 2. a) Explain Flynn's classification in detail.

(10)

b) Discuss the various characteristics of Memory.

(10)

Q. 3. a) Multiply (-4) and (2) using Booth's algorithm.

- (10)
- b) Explain Instruction cycle with Interrupt execution with example.
- (10)
- Q. 4. a) Express (4.50)<sub>10</sub> in IEEE 754 single & double precision standard of floating point number representation.
- (10)
- b) Explain design of control unit wrt softwired and hardwired approach.
- (10)

Q. 5. a) Divide 13 by 3 using restoring division algorithm.

(10)

b) Explain different addressing modes with example.

(10)

Q. 6. Write a note on any two.

(2\*10=20)

- a. Comparison of RISC & CISC
- b. Programmed I/O
- c. Mapping techniques of Cache memory

36