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Total No. of Questions: 09]

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B. Tech. (Sem. - 3rd)

COMPUTER ARCHITECTURE

SUBJECT CODE: CS - 201

<u>Paper ID</u> : [A0451]

[Note: Please fill subject code and paper ID on OMR]

Time: 03 Hours

Maximum Marks: 60

Instruction to Candidates:

- 1) Section A is Compulsory.
- 2) Attempt any Four questions from Section B.
- 3) Attempt any Two questions from Section C.

Section - A

Q1)

 $(10\times 2=20)$

- a) What is the necessity of connecting variety of memory devices to a computer?
- b) Explain the role of a compiler.
- c) What a main memory of a computer consists of?
- d) If A = 101.101 and B = 110.100 both in binary evaluate B A by 2's complement method?
- e) Where ASCII code is used in computers?
- f) Discuss the role of I/O processor.
- g) What do you mean by I/O channels?
- h) Mention the limitations of 8085.
- i) Role of microprogrammed control over hardwired control.
- j) What do you understand by transaction processing benchmarks.

J-802

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Section - B

 $(4 \times 5 = 20)$

- Q2) List the various memories in order of their features and discuss their comparison.
- Q3) Discuss RISC Vs CISC.
- Q4) With the help of circuits discuss look ahead carry generator. Show how it makes faster additions.
- **Q5)** Write a note on 8251.
- Q6) (a) What do you mean by parallel and distributed computers? Explain.
 - (b) Discuss cost/benefit concept of layers in architecture design.

Section - C

 $(2\times 10=20)$

- Q7) Discuss the various I/O data transfer techniques alongwith their merits and demerits.
- Q8) Discuss:
 - (a) Virtual memory.
 - (b) Booth's algorithm for binary multiplication.
- Q9) Write notes on any two of the following:
 - (a) 8255 chip.
 - (b) MIMD machines.
 - (c) Cache memory.

