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Total No. of Questions : 07] **[Total No. of Pages : 02**

BCA (Sem. – 3rd)

COMPUTER SYSTEM ARCHITECTURE (Batch 2k3 onwards)

SUBJECT CODE : BC - 403

Paper ID : [B0226]

[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.

Section - A

Q1) ***(10 × 2 = 20)***

a) What is register? List various register with their uses.

b) What is instruction format? Explain with example.

c) What is memory mapping? Explain.

d) What is microinstruction? Explain with example.

e) Explain the role of register transfer language in computer architecture.

f) What is instruction cycle? Explain.

g) Define interrupt. What are its types?

h) Explain the difference between SRAM and DRAM.

i) Define micro controller? What is its use?

j) What are wilkies controls? Draw neat and clean diagram for it.

Section - B

(4 × 10 = 40)

Q2) Define computer. Discusses the design of a complete basic computer and describe its working mechanism.

Q3) What are the various data transfer schemes? Briefly discuss each scheme.

Q4) What is microprocessor? Explain the architecture of 8 bit microprocessor?

Q5) What is memory hierarchy? Explain different types of memory with their relative merits and demerits.

Q6) Define port. What are various memory and input output ports. Explain their role in the working of computer.

Q7) What is address modes? Explain the need and working of different addressing modes by taking suitable examples.