Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐

Total No. of Pages: 01
Total No. of Questions: 07

BCA (Sem.-4th)
Microprocessor & Microcontrollers
Subject Code: BSBS402
Paper ID: [B0241]

Time: 3 Hrs.   **Max. Marks: 60**

INSTRUCTIONS TO CANDIDATE:
1. *Section-A is compulsory.*
2. *Attempt any four question from Section-B.*

SECTION–A   **(10x2=20)**

Q1.   Write short note on following.

   a)   What is an instruction cycle?

   b)   Explain branch instruction..

   c)   List any five latest microprocessors available in commercial market.

   d)   What is need of clock generator? Explain.

   e)   What is use of flag in microprocessor?

   f)   Define arithmetic co processor.

   g)   What is difference between 8085 and 8086?

   h)   What is accumulator? Explain its role in 8085 microprocessor?

   i)   List various general purpose register available in Intel 8085.

   j)   Explain Instruction set.

SECTION-B   **(4x10=40)**

Q2.   What is RISC processor? Explain how it is different from CISC processor.

Q3.   What is DMA? Draw its circuit diagram. Explain various operations of Intel 8257 DMA Controller.

Q4.   What are addressing modes? Why we have number of addressing modes. Explain the difference between immediate, relative and index addressing modes.

Q5.   Draw and explain its architecture & pin diagram of 8085 microprocessor.

Q6.   Discuss synchronous serial and Asynchronous serial communication in detail.

Q7.   (a) Explain counters and timers

         (b) Explain Architecture of 8284

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