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Total No. of Questions: 09

B.Tech.(ECE)/(ETE) (2011 Onwards)
B.Tech.(Automation & Robotics) (2011 & Onwards)
B.Tech.(Electronics Engg.) (2012 Onwards)
(Sem.-5)

MICRO PROCESSORS & MICROCONTROLLERS

Subject Code: BTEC-504 Paper ID: [A2106]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1 Answer briefly:

- a. What is the basic difference between microprocessor and microcontroller?
- b. Give examples of embedded products using microcontroller.
- c. What is the function of accumulator in 8085?
- d. What is the function of program counter?
- e. What does an ALU do?
- f. How does instructions differ from a directive?
- g. What are the advantages of SRAM as compare to DRAM?
- h. Write the instruction to add the values 16H and CDH. Place result in register R2.
- i. What are the advantages of serial communication over parallel communication?
- j. Why must the data bus be bidirectional?

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SECTION-B

- Discuss address bus and data bus in 8085. Q2
- Q3 Draw and explain 8085 microprocessor pin configuration.
- O4 Differentiate ACALL and LCALL instruction.
- What is the difference between EPROM and EEPROM? Q5
- Explain functional block diagram of 8085. Q6

SECTION-C

- Explain in detail: Q7
 - a. TCON register.
 - b. RS 232 Pins.
- Q8 Explain how writing, assembling and executing of a program done in 8085. Description in the second of t
- Q9

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