

Code No: **R31055**

R10

Set No. 1

III B.Tech I Semester Supplementary Examinations, October/November - 2018

MICROPROCESSORS AND MULTICORE SYSTEMS

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

**Answer any FIVE Questions
All Questions carry equal marks**

- 1 a) What is a microprocessor? What are different types of microprocessors? Also explain the evolution of microprocessors. [8M]
b) Briefly discuss about the execution of a three instruction program. [7M]
- 2 With the help of suitable examples, explain the implementation of if-then, if-then-else and multiple if-then-else programs in assembly language. [15M]
- 3 a) Define macro? Explain how macro is different from procedure? [7M]
b) Explain the functions of the following instructions of 8086 with examples. [8M]
i) MOVSW ii) CMPS iii) LODS iv) REP
- 4 a) Explain the functions of DB, DT, ENDP, EQU, LENGTH assembler directive. [7M]
b) What is MASM? Explain. [8M]
- 5 a) List and explain the different interrupts of 8086 microprocessor. [7M]
b) Explain interrupt structure of 8086 microprocessor. [8M]
- 6 a) Write an assembly language program in 8086 to convert a four digit octal number to decimal number. [8M]
b) Write a program to move a string of data words from offset 2000H to offset 3000H. The length of the string is 10H. [7M]
- 7 a) Explain the internal architecture of 80286 with suitable diagram. [8M]
b) List out the salient features of the 80286 microprocessor? [7M]
- 8 a) Explain the salient features of Pentium processor. Also explain the memory system of the Pentium processor. [7M]
b) Differentiate between Dual core and Core Duo processors. [8M]

WWW.MANARESULTS.CO.IN

