

Semester: 4th

Branch: Comp, Eltx, Med Eltx, Mecatronics(5th Sem), Power Eltx

Subject Name: Microprocessors and Peripheral Devices/Microp. & App.

Time Allowed : 3 Hrs.

MM:100

Section -A

Note: Multiple Choice questions. All questions are compulsory.

$$10 \times 1 = 10$$

Section-B

Note: Objective type questions. All questions are compulsory.

$$10 \times 1 = 10$$

- Q.11 Define Microprocessor
 - Q.12 Define USART
 - Q.13 Define parity flag
 - Q.14 Define maskable interrupt
 - Q.15 Define interfacing
 - Q.16 Define 3 byte instruction
 - Q.17 Define control word

- Q.18 Define DMA
- Q.19 Define PPI
- Q.20 Define bidirectional bus

Section -C

Note: Short answer type Questions. Attempt any twelve questions out of fifteen questions. **12x5=60**

- Q.21 Define addressing modes? Explain different addressing modes with examples?
- Q.22 Write steps how to execute a program in 8085 kit with e.g.
- Q.23 Difference between I/O mapped I/O and memory mapped I/O
- Q.24 Define microprocessor, its evolution, and impact on modern society
- Q.25 Write various application of microprocessor
- Q.26 Difference between maskable and non-maskable interrupts
- Q.27 Classify the interrupts of 8085.Explain the steps to process the interrupt generated in 8085
- Q.28 Explain basic features of 8253 PIT
- Q.29 Explain instruction cycle in brief
- Q.30 Define bus. Give the concept of bus organization of 8085 with a diagram.
- Q.31 Define data transfer with handshaking signal
- Q.32 Difference between I/O mapped I/O and memory mapped I/O?
- Q.33 Explain the control word format of 8255 and define the purpose of each bit
- Q.34 Write a short note on
 - a) Stack
 - b) Memory interfacing
- Q.35 Draw and explain pin configuration of 8085

Section-D

Note: Long answer questions. Attempt any two questions out of three questions.

2x10=20

- Q.36 Draw and discuss pin diagram of 8086 in detail. Draw an architecture and function of each block of microprocessor 8085 in detail.
- Q.37 Explain programmed data transfer techniques and their types in detail with suitable example
- Q.38 WAP in assembly language to find largest out of 3 numbers stored at some location