

No. of Printed Pages : 4
Roll No.

181062C/171062C

6th Sem / Branch : Electronics & Communication
Sub. : Embedded System

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which of the following process architecture support easier instructions Pipelining? (CO3)
a) Harvard b) Von Neumann
c) Both A and B d) None
- Q.2 The time taken to respond to an interrupt is known as (CO2)
a) Interrupt delay b) Interrupt time
c) Interrupt latency d) Interrupt function
- Q.3 Which part of the software is transparent to the interrupt mechanism? (CO3)
a) Background
b) Foreground
c) Both background and foreground
d) Lateral ground
- Q.4 Which of the following speed up the testing process? (CO1)
a) Kernel
b) Software

- c) Application manager
d) Program debugging tools

- Q.5 Which forms the heart of the operating system? (CO3)
a) Kernel b) Applications
c) Hardware d) Operating system
- Q.6 Which of the following can make the application program hardware independent? (CO2)
a) Software b) Application manager
c) Operating system d) Kernel
- Q.7 Embedded systems are: (CO1)
a) General purpose b) Special purpose
c) Both A and B d) None
- Q.8 Which of the following provides a buffer between the user and the low-level interfaces to the hardware? (CO2)
a) Operating system b) Kernel
c) Software d) Hardware
- Q.9 Which of the following provides an efficient method for transferring data from a peripheral to memory? (CO1)
a) DMA controller b) Serial port
c) Parallel port d) Dual port
- Q.10 Which of the following provides a buffer between the user and the low-level interfaces to the hardware? (CO2)
a) Operating system b) Kernel
c) Software d) Hardware

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Name some Software used in microcontrollers. (CO4)
- Q.12 Name some factor affecting embedded systems. (CO1)
- Q.13 What is SUB Instruction. (CO4)
- Q.14 Define scan cycle. (CO2)
- Q.15 PIC stands for _____. (CO3)
- Q.16 What is a general purpose system? (CO1)
- Q.17 Name the buses used for communication in embedded system. (CO1)
- Q.18 Define any one comparison Instruction. (CO1)
- Q.19 Control in SCADA is _____. (CO1)
- Q.20 What is emulator. (CO2)

SECTION-C

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

- Q.21 Define the term compiler. (CO2)
- Q.22 Define the term Memory Management. (CO1)
- Q.23 Give the basic introduction of Software used in microcontroller. (CO2)
- Q.24 What are the Programming concepts of microcontrollers? (CO3)
- Q.25 Classify the types of processors in Embedded System. (CO1)

- Q.26 Explain the term Simulator. (CO3)
- Q.27 Compare embedded system and non-embedded system with examples. (CO1)
- Q.28 Discuss the steps involved in interfacing of 7-segment display. (CO4)
- Q.29 Explain what is the need for an infinite loop in embedded systems? (CO1)
- Q.30 Explain the term Simulator. (CO3)
- Q.31 What are the selection criteria of a microcontroller? (Co1)
- Q.32 Discuss the steps involved in interfacing of 7 segment display. (CO4)
- Q.33 Classify the types of processors in Embedded System. (CO3)
- Q.34 Discuss about Pipelining. (CO2)
- Q.35 How to transfer C or ASM code in microcontrollers? (CO3)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Compare 8051 microcontroller with PIC microcontroller. (CO3)
- Q.37 Explain the embedded system architecture with neat and clean diagram. (CO1)
- Q.38 Draw the block diagram of AVR microcontroller and explain each block in detail. (CO2)