

- Q.26 What do you mean by memory management?
- Q.27 How the transfer C or ASM code in microcontroller.
- Q.28 Write the selection criteria of microcontroller.
- Q.29 Discuss the steps involved in interfacing of 7 segment display.
- Q.30 List any 5 characteristics of embedded system.
- Q.31 What are the different types of processors used in embedded system?
- Q.32 Write a short note on compiler.
- Q.33 Discuss the steps involved in interfacing of LED.
- Q.34 What is simulator and emulator?
- Q.35 List any 5 applications of PIC?

Section-D

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

- Q.36 Differentiate between 8051, PIC and AVR.
- Q.37 Draw the block diagram of AVR and explain function of each block.
- Q.38 Draw architecture of embedded system and explain its working in detail.

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181062C/171062C

6th Sem / Eltx. Subject : Embedded Systems

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 How an embedded system communicate with the outside world?
 - a) Memory b) Output
 - c) Peripherals d) Input
- Q.2 Which of the following is an 8-bit RISC Harvard architecture?
 - a) AVR b) Zilog80
 - c) 8051 d) Motorola 6800
- Q.3 RTOS stands for _____.
 - a) Real time output system.
 - b) Real time operating system
 - c) Rare time operating system
 - d) None
- Q.4 Which of the following enables the user to utilize the system efficiently?
 - a) Kernel b) Operating system
 - c) Software d) Hardware

- Q.5 The 8051 microcontroller is an _____ bit microcontroller.
- a) 4 b) 8
c) 12 d) 16
- Q.6 The time taken to respond to an interrupt is known as
- a) Interrupt delay b) Interrupt time
c) Interrupt latency d) Interrupt function
- Q.7 AVR is a family of _____ which was developed by Atmel company.
- a) Microprocessors b) Microcontrollers
c) Bit processors d) amplifiers
- Q.8 Identify the standard software components that can be reused in an embedded system design?
- a) Memory
b) application software
c) application manager
d) Operating system
- Q.9 Which of the following are hardware components of an embedded system?
- a) Computer processor b) Device peripherals
c) Computer memory d) all the above
- Q.10 AVR stands for _____?
- a) Alf and Vegard's RISC processor.
b) Atmel Virtual processor
c) Access Virtual Reader
d) None of these

Section B

Note: Objective types Questions. All Questions are compulsory. (10x1=10)

- Q.11 Expand PIC.,
- Q.12 Give one application of embedded system.
- Q.13 AVR is a _____ bit RISC' single chip microcontroller?
- Q.14 8051 is a _____ bit microcontroller.
- Q.15 Expand LED.
- Q.16 What is embedded system?
- Q.17 Name one software used in microcontroller.
- Q.18 What is compiler?
- Q.19 What is relay?
- Q.20 PIC is based on _____ architecture. (Von Neumann/Harvard)

Section-C

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

- Q.21 Write any 5 applications of embedded system.
- Q.22 What do you mean by Real time operating system?
- Q.23 Name the various factors affecting embedded system.
- Q.24 Discuss different softwares used in microcontroller.
- Q.25 Differentiate between embedded system and general purpose system.