COURSE CODE : ECE313

COURSE TITLE : MICROPROCESSOR AND MICROCONTROLLERS

A

Time Allowed: 03:00 hrs

Max. Marks: 70

Read the following instructions carefully before attempting the question paper.
1. This question paper is divided into two parts A and B.
2. Part A contains 10 questions of 2 marks each. All questions are compulsory.
3. Part B contains 5 questions of 10 marks each. In each question attempt either question (a) or (b), in case both (a) and (b) questions are attempted for any question then only the first attempted question will be evaluated.
4. Answer all questions in serial order.
5. Do not write or mark anything on the question paper except your registration no. on the designated space.

## PART A

Q1. a) Explain all the buses used in 8085 microprocessor?
b) Differentiate between Microprocessor and microcontroller.
c) Explain the LCD control pins.
d) What is IDE? Explain.
e) What is the function of Rs pin in LCD?
f) WAP in Arduino to control the intensity of LED automatically high to low without using any sensor.
g) Explain data types in Arduino.
h) Draw only Harvard Architecture
i) WAP in Arduino to blink the LED connected at Pin 13 after 5 seconds.
j) Explain the working of HOLD and HLDA pin in 8085.

[ 2 Marks ]
[ 2 Marks ]
[ 2 Marks ]
[ 2 Marks ]
[ 2 Marks ]
[ 2 Marks ]
[ 2 Marks ]
[ 2 Marks ]
[ 2 Marks ]

## PART B

Q2. a) WAP in Arduino to interface ultrasonic and display the distance on LCD. If the distance is less than 5cm switch ON the buzzer connected at pin 13.
[ 10 Marks ]

OR

b) (i) Explain the features of Atmega328P in detail.
[ 5 Marks ]
(ii) WAP to control the intensity of LED connected at pin-11 of Arduino. The duty cycle will be sent to Arduino using the Serial monitor.
[ 5 Marks ]

Q3. a) Write pin details of LCD.
[ 10 Marks ]

OR

b) (i) WAP in Arduino to sweep the servo motor w.r.t the movement of the potentiometer.
[ 5 Marks ]
(ii) WAP in Arduino to convert the value stored in variable 'X' to HEX, OCT, ASCII, BYTE and decimal. After converting show the value on the serial monitor.
[ 5 Marks ]

Q4. a) WAP in Arduino to make up-counter using IR sensor. If a person enters the room then the count should increase by one and if the person moves out the counter should decrement by one and display the count on the serial monitor.
[ 10 Marks ]

OR

b) (i) Explain L293D in detail.
[ 5 Marks ]
(ii) Explain some functions of SPI used in Arduino.
[ 5 Marks ]

Q5. a) Design LFR using Arduino, IR, two DC motors and L293D.
[ 10 Marks ]

OR

b) (i) WAP in 8051 to convert the analog value to digital and show it on Port-2.
[ 5 Marks ]
(ii) Write the steps to configure Bluetooth HC-05.
[ 5 Marks ]

Q6. a) Explain in detail the addressing modes of 8051 with examples.
[ 10 Marks ]

OR

b) (i) Interface six LED's with Arduino using Charlieplexing concept.
[ 5 Marks ]
(ii) Differentiate between C and Embedded C.
[ 5 Marks ]

-- End of Question Paper --

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