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]
[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.
(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]
[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.
(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]
[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.
(ii) Explain some functions of SPI used in Arduino.

[5 Marks]
[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.
(ii) Write the steps to configure Bluetooth HC-05.

[5 Marks]
[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.
(ii) Differentiate between C and Embedded C.

[5 Marks]
[5 Marks]

-- End of Question Paper --

[Microprocessor And Microcontroller Question Paper](#)

DJ Losen

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poverty in a dingy St. Louis apartment with her son, Tom, and her daughter, ... The Glass Menagerie When Amanda convinces Tom to bring home from his workplace a "gentleman caller" for Laura, the illusions that Tom, Amanda, and Laura have each created in order ... The Glass Menagerie Text Scene 1: The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as. Tennessee Williams – The Glass Menagerie (Scene 3) LEGEND ON SCREEN: 'AFTER THE FIASCO' [TOM speaks from the fire-escape landing.] TOM: After the fiasco at Rubicam's Business College, the idea of getting a ... "The Glass Menagerie," Scene One and Scene Two, by ... 41 Scene 1. 352 The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams – The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb ! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ...