

Time Allowed: 03:00 hrs

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.

Max. Marks: 70

PART A

- Q1 a) Explain all the buses used in 8085 microprocessor? [ 2 Marks ]
- b) Differentiate between Microprocessor and microcontroller. [ 2 Marks ]
- c) Explain the LCD control pins. [ 2 Marks ]
- d) What is IDE? Explain. [ 2 Marks ]
- e) What is the function of Rs pin in LCD? [ 2 Marks ]
- f) WAP in Arduino to control the intensity of LED automatically high to low without using any sensor. [ 2 Marks ]
- g) Explain data types in Arduino. [ 2 Marks ]
- h) Draw only Harvard Architecture. [ 2 Marks ]
- i) WAP in Arduino to blink the LED connected at Pin 13 after 5 seconds. [ 2 Marks ]
- j) Explain the working of HOLD and HLDA pin in 8085. [ 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 ]
- 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 ]
- 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 ]
- 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 ]
- 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 ]
- b) (i) Interface six LED's with Arduino using Charlieplexing concept. [ 5 Marks ]
- (ii) Differentiate between C and Embedded C. [ 5 Marks ]

# Microprocessor And Microcontroller Question Paper

**Yi-Tong Ma**



## **Microprocessor And Microcontroller Question Paper:**

The Top Books of the Year Microprocessor And Microcontroller Question Paper The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. Microprocessor And Microcontroller Question Paper : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Microprocessor And Microcontroller Question Paper : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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