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SUBJECT CODE NO: - Y-2238
FACULTY OF SCIENCE AND TECHNOLOGY
B. Sc. (PATTERN-2013) (T.Y SEM VI)
Examination April / May - 2024
Electronics Paper- XX A) Micro Controller - II

[Time: 1:30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

N. B

- 1) Attempt All Questions.
- 2) All questions carry equal marks.
- 3) Draw Diagram & Flowcharts whenever necessary.

- Q.1** a) Explain TCON register and write timer 1 mode 1 programming steps? **10**
 b) Explain SCON register used in serial communication? **10**

OR

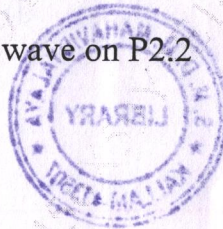
- a) Write programming step to transfer data serially in 8051 Microcontroller? **10**
 b) Explain counter in 8051 Microcontroller with its example? **10**

- Q.2** a) what is interrupt? Explain interrupt priority in the 8051 microcontrollers? **10**
 b) Explain Timer interrupt with its example? **10**

OR

Write short note on following (any 4) **20**

- 1) TMOD
- 2) Serial communication
- 3) Write program for square wave on P2.2
- 4) DAC0808
- 5) LM34 temperature sensor
- 6) ADC0809



Q.3 Multiple choice questions **10**

1. C/T bit available in..... **10**
 - a) TCON
 - b) TMOD
 - c) SCON
 - d) Timer
2. The 8051 has bit of timer.
 - a) One
 - b) Eight
 - c) Sixteen
 - d) Thirty-two
3. INT0 is available on pin.
 - a) P3.0
 - b) P3.1
 - c) P3.2
 - d) P3.3

4. In serial Asynchronous mode start bit is always bit.
a) One b) Zero c) Zero to one d) None
5. The alternate function of P3.1 is.....
a) INTO b) INT1 c) T0 d) T1
6. Vector address of External hardware interrupt is
a) 00 b) 0B c) 03 d) 1B
7. How many interrupt signals exist in 8051.
a) Two b) Three c) Four d) Five
8. Pins from are known as PORT3 in 8051.
a) 10-16 b) 12-17 c) 10-17 d) 10-16
9. SP stands for
a) Store Pointer b) Stack Pointer
c) Store Point d) Store package
10. TR0 is used for
a) Timer 0 run bit b) Timer 0 read bit
c) Timer 1 run bit d) Timer 1 read bit

