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Question Paper Code: 58461

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

One credit

Electronics and Communication Engineering

15UEC861 - PIC EMBEDDED PROGRAMMING

(Regulation 2015)

Duration: 1.30 hour

Maximum: 50 Marks

Answer ALL Questions

PART A - (20 x 1 = 20 Marks)

- How many clock pulses are confined by each machine cycle of Peripheral-Interface Controllers?
(a) 4 (b) 8 (c) 12 (d) 16
- Tx& Rx pin was. ____ & ____
(a) 21 & 22 (b) 7 & 8 (c) 25 & 26 (d) 39 & 40
- In PIC 16F877A PORT ____ has only 6 pins
(a) A (b) B (c) C (d) D
- EEPROM data memory size _____
(a) Inline (b) Summary (c) In place and summary (d) All the above
- Which software was used to upload the program on PIC ic for simulation
(a) Pic kit 2 (b) MP lab (c) Proteus (d) HTML5
- 7segment has _____ pins.
(a) 8 (b) 10 (c) 12 (d) 16
- PIC have only _____ single-word instructions**
(a) 25 (b) 150 (c) 35 (d) 50

8. RISC _____
- (a) rearrange instruction set computer
 - (b) reduced instruction set computer
 - (c) reduced instruction series controller
 - (d) None of these
9. LED stands for _____
- (a) light emitting diode
 - (b) light emitted display
 - (c) liquid emitted display
 - (d) none of these
10. Which bit permits to enable (if set) or disable (if cleared) all the interrupts in an INTCON register?
- (a) GIE
 - (b) ADIE
 - (c) RBIE
 - (d) TOIE
11. Which hex-value is used to glow 6 on common anode 7segment
- (a) 7D
 - (b) 82
 - (c) F9
 - (d) 3F
12. PIC16F877A operating voltage range _____ V.
- (a) 2.0 – 5.5
 - (b) 2.0 – 6.5
 - (c) 1.0 – 6.5
 - (d) 4.0 – 5.5
13. TRIS used to _____
- (a) Setting the type of the port pins (Input or Output)
 - (b) Settings used for transmitting the data
 - (c) Settings used for receiving the data
 - (d) None of these
14. RCSTA used to _____
- (a) Setting the type of the port pins (Input or Output)
 - (b) Settings used for transmitting the data
 - (c) Settings used for receiving the data
 - (d) None of these

15. LCD stands for _____
(a) liquid crystal display (b) light crystal display
(c) led crystal display (d) none of these
16. Types of switches
(a) SPST (b) SPDT (c) DPST (d) all of these
17. TXSTA used to _____
(a) Setting the type of the port pins (Input or Output)
(b) Settings used for transmitting the data
(c) Settings used for receiving the data
(d) None of these
18. PIC16F877A operating speed _____
(a) 20ns (b) 200ns (c) 20ms (d) 200ms
19. Identify the correct statement:
(a) Only 35 single-word instructions to learn
(b) Setting a TRISA bit (= 1) will make the corresponding PORTA pin an input
(c) PIC16F877A operating voltage range 1.0 – 6.5 v
(d) Relay is a passive component
20. Data Memory (RAM) size _____
(a) 368 x 8 bytes (b) 256 x 8 bytes (c) 8K x 14 words (d) all of these

PART - B (2 x 15 = 30 Marks)

21. (a) Draw and explain pin diagram for PIC16F877A. (15)
- Or
- (b) Write a simple program for serial receiver. (15)

22. (a) Write a simple program for motor forward / reverse. (15)

Or

(b) Write a simple program to arrange the given set of numbers in ascending
Order. (15)
