

Reg. No. :

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Question Paper Code: 58461

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

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)

1. ____ gas is emitting blue color light on led
(a) Aluminium Gallium Phosphide (AlGaP) (b) Aluminium Gallium Nitride (AlGaN)
(c) Zinc Selenide (ZnSe) (d) Gallium Arsenide (GaAs)
2. In PIC 16F877A PORT ____ has only 6 pins
(a) A (b) B (c) C (d) D
3. Which software was used to upload the program on PIC ic for simulation
(a) Pic kit 2 (b) MP lab (c) Proteus (d) HTML5
4. EEPROM data memory size _____
(a) Inline (b) Summary (c) In place and summary (d) All the above
5. 7segment has _____ pins.
(a) 8 (b) 10 (c) 12 (d) 16
6. ADC stands for _____
(a) Analog & digital control (b) Amplitude-to-digital converter
(c) Analog-to-digital converter (d) None of the above

7. RISC_____
- (a) rearrange instruction set computer
 - (b) reduced instruction set computer
 - (c) reduced instruction series controller
 - (d) None of these
8. LED stands for_____
- (a) light emitting diode
 - (b) light emitted display
 - (c) liquid emitted display
 - (d) none of these
9. Which hex-value is used to glow 6 on common anode 7segment
- (a) 7D
 - (b) 82
 - (c) F9
 - (d) 3F
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. 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
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. 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

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. _____ are types of 7 segment.
- (a) Common anode & common emitter
 - (b) Common cathode & common emitter
 - (c) Common anode & common cathode
 - (d) None of the these
16. Types of switches
- (a) SPST
 - (b) SPDT
 - (c) DPST
 - (d) all of these
17. 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
18. Data Memory (RAM) size _____
- (a) 368 x 8 bytes
 - (b) 256 x 8 bytes
 - (c) 8K x 14 words
 - (d) all of these
19. USART stands for _____
- (a) Unit Synchronous Asynchronous Receiver Transmitter
 - (b) Universal Serial Asynchronous Receiver Transmitter
 - (c) Universal Synchronous Asynchronous Receiver Transmitter
 - (d) None of the these
20. In LCD program _____ command was use to clear display screen?
- (a) 0x02
 - (b) 0x01
 - (c) 0x1C
 - (d) 0x1C

PART - B (2 x 15 = 30 Marks)

21. (a) Draw and explain pin diagram for 16x2 LCD. (15)

Or

(b) Draw and explain pin diagram for PIC16F877A. (15)

22. (a) Write a simple program for LED blinking. (15)

Or

(b) Write a hex-value & binary-value for glow 0-9 on common anode 7 segment. (15)
