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**Question Paper Code: 58041**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

ONE CREDIT COURSE

Electronics and Communication Engineering

15UEC861 - PIC EMBEDDED PROGRAMMING

(Regulation 2015)

Duration: One hour

Maximum: 40 Marks

Answer ALL Questions

PART A - (20 x 1 = 20 Marks)

- PIC stands for
  - peripheral interface controller
  - program interface controller
  - peripheral interface computer
  - none of these
- EEPROM data memory size
  - 368 x 8 bytes
  - 256 x 8 bytes
  - 8K x 14 words
  - none of these
- Which software was used to upload the program on PIC ic for simulation?
  - pic kit 2
  - MP lab
  - proteus
  - none of these
- Binary value of 32
  - 01110100
  - 00110010
  - 11001000
  - 00010011
- GSM stands for
  - Global System for Mobile communication
  - Global System model
  - Global System for Mobile control
  - None of these
- 7segment has \_\_\_\_\_ pins.
  - 8
  - 10
  - 12
  - 16

7. 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
8. Hexadecimal value of 10110111
- (a) A7
  - (b) 98
  - (c) B7
  - (d) D9
9. PIC have only \_\_\_\_\_ single-word instructions.
- (a) 25
  - (b) 150
  - (c) 35
  - (d) 50
10. PIC16F877A operating speed
- (a) 20ns
  - (b) 200ns
  - (c) 20ms
  - (d) 200ms
11. Which hex-value is used to glow 6 on common anode 7segment
- (a) 7D
  - (b) 82
  - (c) F9
  - (d) 3F
12. BI color led has \_\_\_\_\_ pins.
- (a) 4
  - (b) 3
  - (b) 2
  - (d) none of these
13. Relay is a \_\_\_\_\_ component.
- (a) active
  - (b) passive
  - (c) electromechanical
  - (d) none of these
14. A potentiometer is a
- (a) Variable power supply
  - (b) Variable resistor
  - (c) Variable capacitor
  - (d) none of these
15. 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
16. \_\_\_\_\_ I/O Ports are in PIC16F877A.
- (a) 4
  - (b) 3
  - (c) 5
  - (d) 6
17. Flash memory size
- (a) 368 x 8 bytes
  - (b) 256 x 8 bytes
  - (c) 8K x 14 words
  - (d) none of these
18. POR stands for
- (a) Power on Reset
  - (b) Power on Register
  - (c) Power off Reset
  - (d) Power off Register

19. RGB led has \_\_\_\_\_ pins.  
(a) 4                      (b) 3                      (c) 2                      (d) none of the these
20. Types of switches  
(a) SPST                      (b) SPDT                      (c) DPST                      (d) all of these

PART - B (2 x 10 = 20 Marks)

21. (a) Write a simple program for motor forward / reverse. (10)

Or

(b) Write a simple program to arrange the given set of numbers in ascending order. (10)

22. (a) Draw and explain pin diagram for PIC16F877A. (10)

Or

(b) Write a hex-value & binary-value for glow 0-9 on common anode 7 segment. (10)

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