

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(Fifth Semester)

Branch - ELECTRONICS

PIC MICROCONTROLLER

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks . (10 x 2 = 20)

- 1 Expand PIC & RISC.
- 2 What is meant by OTP?
- 3 Define Memory.
- 4 What is the use of File Register?
- 5 What is meant by Instruction?
- 6 Expand EPR and MPASM.
- 7 What is meant by PIC bus?
- 8 Define Counter.
- 9 What is the use of Bluetooth?
- 10 Define Network.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Give an account on introduction of PIC Microcontroller.
OR
b Explain the RISC concepts.
- 12 a Describe about the program memory in 16F877 with diagram.
OR
b Give an account on Timer modules.
- 13 a Write a short note on Files with default extension.
OR
b Explain the text strings.
- 14 a Give an account on input interface.
OR
b Describe the function of Band rate generator.
- 15 a List out the type of Bluetooth link.
OR
b Explain the ultra wideband with diagram.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Briefly explain about the PIC Micro controller family.
- 17 Explain the following: (i) Clock Oscillator (ii) Watchdog Timer.
- 18 Describe about the list file format and error file format.
- 19 Enumerate the operation of interfacing with LCD modules with diagram.
- 20 Illustrate the zigbee components and network topologies.