PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2017
(Fifth Semester)

Branch- COMPUTER TECHNOLOGY

CORE ELECTIVE -1 EMBEDDED SYSTEMS

Time : Three Hours   Maximum : 75 Marks

SECTION-A 120 Marks!
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (10x2 = 20)

1   What are microprocessors?
2   Define sensors.
3   Define reliability.
4   Define portability.
5   What is interrupt?
6   What is serial port?
7   What is based indexed addressing mode?
8   What is data transfer instruction?
9   What is IDE?
10   What is decompiler?

SECTION - B (25 Marks!
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a Write about classifications of embedded system.
                         OR
    b Brief about big Indian and little Indian processor.

12 a Write short note on washing machine-embedded system.
                         OR
    b Briefly explain about non-operational quality attributes of embedded system.

13 a Write about the factors to be considered in selecting a controller for
        embedded system.
                         OR
    b Write short note on oscillator unit in embedded system.

34 a   Brief about the instruction set of 8051.
                         OR
    b Write short note on UML.

15a Explain about types of files generated on cross compilation.
                         OR
    b Write short notes on development phase of embedded product
       development life cycle.

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 1 0 = 30)

16   Elaborate about application specific ICs.

17   Explain characteristics of embedded system.

18   Explain 8051 architecture.

19   Explain about fundamental issues in hardware, software co-design.

20   Explain about simulator.

Z-Z-Z   END