PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018
(Fourth Semester)

Branch –SOFTWARE SYSTEMS
(Five year integrated)

MICROPROCESSOR & INTERFACING/ MICROPROCESSOR & APPLICATIONS

Time: Three Hours   Maximum: 75 Marks

SECTION -A (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)

1 a Briefly explain about bus structure in 8085.
                              OR
  b Write short notes on internal data operations in 8085.

2 a Explain the address decoding and memory addresses.
                              OR
  b Briefly explain about the pinout and signal details in 8085 microprocessor.

3 a Write short note on compare instructions.
                              OR
  b Discuss the differences between continue loop and conditional loop.

4 a Write an assembly language program for block of data transfer.
                              OR
  b Write an assembly language program for 1's and 2's complement of 8-bit numbers.

5 a Explain about design of ring counter.
                              OR
  b Briefly explain about control word.

SECTION -B (45 Marks)
Answer any **THREE** questions
ALL questions carry **EQUAL** Marks   (3 x 15 = 45)

6   Explain in details about memory classifications in 8085 microprocessor.

7   Explain the 8085 microprocessor architecture with neat block diagram.

8   Explain the following operations with suitable examples :
     (i) Arithmetic Operations   (ii) Logical operations

9   Write an assembly language program for multiplication of two 8 bit numbers.

10   Explain in details about various operating modes in the PPI 8255.

Z-Z-Z   END