

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
MSc DEGREE EXAMINATION DECEMBER 2018  
(Fourth Semester)

Branch -SOFTWARE SYSTEMS  
(Five year integrated)

MICROPROCESSOR & INTERFACING

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer ALL questions  
ALL questions carry EQUAL Marks ( 5 x 6 = 30)

- 1 a Explain the General Purpose Registers available in 8085.  
OR  
b Bring out the memory classifications in a micro computer system.
- 2 a Explain generation of control signals in 8085.  
" OR  
b Discuss the two types of memory interfacing.
- 3 a Explain two arithmetic instruction which will not affect flag settings.  
OR  
b Discuss compare instruction with its flag settings.
- 4 a Write a program to add two 8 bit numbers and store in a memory location.  
OR  
b Write an assembly program for black move data transfer.
- 5 a Explain control word of 8255.  
OR  
b What is BSR mode? Explain with an example.

SECTION -B (45 Marks)

Answer any THREE questions  
ALL questions carry EQUAL Marks ( 3 x 15 = 45)

- 6 Bring out the difference between microprocessor initiated operations and peripheral initiated operations in 8085.
- 7 Explain architecture of 8085 microprocessor with neat diagram.
- 8 Discuss the various programming techniques like looping, counting and indexing with examples.
- 9 With neat flow diagram, write an assembly program to find out the largest number in an array.
- 10 Design water level indicator using 8255 PP1.