

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Fourth Semester)

Branch – COMPUTER SCIENCE

MICROPROCESSOR

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks (10 x 1 = 10)

Cont..

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 5 = 25)

- 11 a Analyse operations of microprocessor.
 OR
 b Narrate the types of registers in 8085 microprocessor.
- 12 a How the demultiplexing the bus works? Explain.
 OR
 b Produce the functions of memory interfacing.
- 13 a Describe the data transfer instruction with example.
 OR
 b List out the arithmetic operations and explain with example.
- 14 a Demonstrate the addition of two 8/16 bit number with suitable example.
 OR
 b Develop the methods of division of two-8-bit data.
- 15 a Write down the advantages of microprocessor 8086.
 OR
 b Describe the memory organization of 8086

SECTION - C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 8 = 40)

- 16 a Draw and explain the bus organization of 8085 microprocessor.
 OR
 b Outline the internal data operations of 8085 microprocessor.
- 17 a Discuss the 8085 MPU and its architecture with diagram.
 OR
 b Elaborate the address decoding and memory addressing.
- 18 a Analyse the various types of branch operations?
 OR
 b Discuss the additional data transfer and 16 bit arithmetic instruction.
- 19 a Discover to find the largest number in an array and give example.
 OR
 b Demonstrate the multiplication of two-8-bit data.
- 20 a Draw and explain the architecture of 8086 microprocessor.
 OR
 b Summarize the Pin configuration of 8086 with diagram.

Z-Z-Z

END