

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 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) Describe the 8085 bus organization?

OR

b) Explain the I/O devices in microprocessor?

12. a) Explain the buffer with example?

OR

b) Discuss about the address decoding with diagram.

13. a) Explain the branch operations in detail.

OR

b) Write about the Additional data transfer and 16 bit arithmetic instructions.

14. a) Generalize the steps to find the largest number in an array with example.

OR

b) Demonstrate the how to find the sum of series of 8-bit numbers with example?

15. a) Write about the evolution of 8086 microprocesor.

OR

b) Discuss about the memory organization of 8086.

SECTION -C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 8 = 40)

16. a) Generalize the memory classifications.

OR

b) State the importance of internal data operations.

17. a) Explain in detail about the 8085 microprocesor?

OR

b) Briefly explain about the 8085-based microcomputer.

18. a) Explain the Datatransfer(copy) instructions?

OR

b) Discuss about the logic operations in detail.

19. a) Demonstrate the addition and subtraction of two 8 bit numbers using suitable example.

OR

b) Discuss about the division of two-8-bit data in detail.

20. a) Describe the block diagram of 8086 microprocessor.

OR

b) Write the pin configuration of 8086 in detail.

Z-Z-Z

END