



QP CODE: 25020449



25020449

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE
EXAMINATIONS, FEBRUARY 2025**

Sixth Semester

B.Sc Electronics and Computer Maintenance Model III

**CORE COURSE - EM6CRT06 - INTEL 8086 MICROPROCESSOR AND
PROGRAMMING**

2017 Admission Onwards

3C90873D

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Write the special functions carried by the general purpose register in 8086.
2. Define bus. Give its types.
3. What is the minimum mode of 8086? Write the components associated.
4. What is meant by hardware interrupts ?
5. What is the purpose of L command in DEBUG?
6. What is stack? Where is it located?
7. Write about SHL and SHR.
8. What are the files created after the assembly process?
9. Write a procedure to read a word from the keyboard.
10. Define INT 17H, Function 01H: Initialize printer port.
11. Write the features of 80186.
12. Write about the superscalar architecture of Pentium processor.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Briefly explain the features of RISC processors.
14. Narrate the concept of (1) symbolic processor (2) embedded processor.
15. Draw and explain the timing diagram for read bus cycle of 8086.
16. What are the functions of assembler directives in a program execution?
17. Explain different arithmetic instructions in 8086 processor.
18. Explain CMPS instruction.
19. What are the advantages of macros?
20. Explain the different data movement steps that takes place when data is read from a Keyboard.
21. What are the features of 80286?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. In detail explain various types of microprocessors. Give examples.
23. Explain how the various instructions of 8086 are classified. Give example in each type mentioning their significance.
24. Explain the table handling techniques.
25. With neat diagram, explain the architecture of 80486, bringing out its salient features.

(2×15=30)

