

2031
B.A./B.Sc. (General) Third Semester
Computer Science
CS-05: Computer Organization

Time allowed: 3 Hours

Max. Marks: 30

NOTE: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I - IV.

x-x-x

UNIT - I

- I. How information is represented with various codes? Explain error detection & correction codes. (6)
- II. Convert
 $(1975)_{10} = (?)_2 = (?)_8 = (?)_{16}$ (6)

UNIT - II

- III. What are Decoders and Encoders? Describe them with the help of example. (6)
- IV. What is Registers? Explain in brief different shift registers. (6)

UNIT - III

- V. Design architecture of 8086 processor & its instructions set (6)
- VI. Write about various addressing modes available. (6)

UNIT - IV

- VII. Write various important physical components of computer. (6)
- VIII. What do you understand by a virus? Explain different types of virus attacks. How can you prevent your PC from virus attack? (6)

UNIT - V

- IX. Explain the following:-
- a) What is an Instruction Format? (1)
 - b) What are Pseudo Instructions? (1)
 - c) What are counters & its types? (2)
 - d) Explain different types of internal cards. (2)

x-x-x