

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

1	7	2	9	1
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Exam. Code :

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B.A./B.Sc. (General) 3rd Semester

(2124)

COMPUTER SCIENCE

Paper—CS05 Theory-A Computer Organization

Time Allowed : Three Hours]

[Maximum Marks : 30

Note :— Attempt *five* questions in all, including Question 9 (Unit-V) which is compulsory and selecting *one* question each from Unit I-IV.

UNIT—I

1. Differentiate between ASCII and EBCDIC codes. 6
2. What do you mean by Hamming code ? Describe its working and usage. 6

UNIT—II

3. Write short notes on the following :—
 - (a) Instruction Cycle.
 - (b) Half adder. 2×3=6
4. What is counter ? Design & describe the working of 3-bit asynchronous counter. 6

UNIT—III

5. Describe register, indirect, indexed and immediate addressing modes of 8086 with example. 6
6. Differentiate between machine and assembly languages. 6

UNIT—IV

7. Describe various components of a computer system with suitable diagram. 6
8. What do you mean by virus ? How can you protect your system from virus ? Describe. 6

UNIT—V

9. Explain the following terms :
 - (a) Instruction Set.
 - (b) De Morgan's first law.
 - (c) Encoder & Decoder.
 - (d) Boot Sector Virus. 4×1.5=6