(i) Printed Pages : 3]

Roll No.

Sub. Code : 0 2 9 1 (ii) Questions : 9]

> Exam. Code : 0 0 0 3

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

1127

COMPUTER SCIENCE (Computer Organization) Paper : CS05 : Theory-A

Time : 3 Hours] [Max. Marks : 30

Note :- Attempt five questions in all. Question No. 1 is compulsory and attempt one question from each and Full Adder with the help of suitable thinUple.

Compulsory Question

- 1.
 - Define Hamming Code. (i)
 - (ii) Describe Registers.
 - (iii) How we do PC diagnostics ? $3\times 2=6$

NA-334

(1)

Turn Over

Unit-I

- What is meant by fixed and floating point representation ? Differentiate between them giving examples.
- (a) Add -34 and -26 using 8 bit 2's complement signed arithmetic.
 - (b) Prove the following using rules of BooleanAlgebra :
 - (i) A'.B'.C' + A'.B.C' + A.B'.C' + A.B.C' = C'
 - (ii) (A + B). (A + B').(A' + Ztw) = A.Z 2×3

6

Note :- Attempt five questioning all. Question No. 3 is

- 4. What do you mean by Gates ? Explain Half Adder and Full Adder with the help of suitable example.6
- Describe Microinstructions. Define the working of logical and shift operations.
 6

Unit-III grinnal enfled (i)

6. What do you mean by Microprocessor ? Explain the architecture of 8086/8088 in detail.6

NA-334

- 7. Write short notes on the following :
 - (a) Pseudo instruction
 - (b) Assembly language

Unit-IV

- 8. What is a Computer Virus ? Explain different types of virus and methods of their removal.
- Discuss various physical components of a computer. Explain.

NA-334

How we do PC dia the line of

 2×3

6

6