

2016

**MATHEMATICS**

MAT 206

**COMPUTER FUNDAMENTS AND PROGRAMMING IN C**

Full Mark : 40

Time : 1½ Hrs

*Figures in the right hand margin indicate full marks for the question*

Answer the following :

1. Discuss the different generations of computer. 8
2. Define AND, OR, NAND gates. 4
3. Convert the decimal  $(223)_{10}$  to binary and hexadecimal. 4
4. Find 2's complement of a binary number  $(-10)_2$ . 4
5. What is an identifier? What are the rules that should be followed when an identifier is named? 4
6. What are keywords and variables? How are variables declared? 4
7. What are assemblers and compilers? 2

8. Answer any two :

5 x 2 = 10

- a) Write a C program to find the sum and product of two numbers.
- b) What is if-else statement? Write a C program using the if-else statement.
- c) What is for loop? Write a C program using for loop.

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