

Roll No.

Y – 3121
M.Sc. (Physics) (Second Semester)
EXAMINATION, May/June 2021
PHYSICS
Paper–204
DIGITAL ELECTRONICS, NUMERICAL
ANALYSIS AND COMPUTER PROGRAMMING

Time : Three Hours

Maximum Marks : 85

Minimum Pass Marks : 29

Note—Attempt *all* questions.

Unit-I

1. Describe various logic gates used in electronic circuits. How half and full adders are constructed using these gates ? 17

Unit-II

2. Taking suitable example explain Newton Raphson method. 17

Unit-III

3. Explain Newton's forward and backward interpolation. 17

Unit-IV

4. Explain the Euler's method used to solve differential equation. 17

Unit-V

5. Write short notes on any *two* of the followings— 17
- (i) Standard arithmetic function.
 - (ii) Input and output statements.
 - (iii) Control statements.
 - (iv) Main and sub programs.