W-3257

M.Sc. (Fourth Semester) Examination, June-2020
PHYSICS
Paper - 404-C
Computer Application

Time : Three Hours
Maximum Marks : 85
Minimum Pass Marks : 29

Note : Attempt **all** questions.

Q.1.   Present a comparative study of LAN, WAN and MAN topologies.   17

Q.2.   a)   Write the concept of line drawing using D.D.A. Why it provides a line different that Bresenham's algorithm.

      b)   Obtain transformation matrix for rotation in 2-D graphics. Why its order is made 3×3?

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Q.3.   Obtain expressions for three different rotations in 3-D graphics.   17

Q.4.   Write program to solve following integral using trapezoidal formula.   17

Q.5.   Write computer program for showing plot a of potential with respect to the change in distance between two charges.   17