Q.1 Draw the Voronoi Diagram of given points. Also discuss the application of Voronoi Diagrams.
   Points: (0,0), (10,0), (20,10), (20, -10) [5+2]

Q.2 Explain the Graham’s Scan algorithm using suitable example. [6]

Q.3 Write short note on any one:
   (i) Persistence in Tree Type Data structure
   (ii) Insertion in 2-3 Tree. [5]

Q.4 Show the red-Black Trees that result after successively deletion of key 8, 12 and 19 from given Red-Black Tree. Also write the required algorithm [7]