

Note: Attempt all Questions:

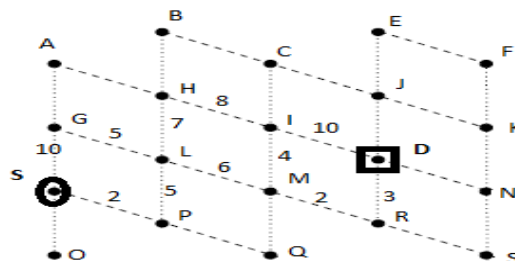
Q1: a) Explain the concepts of Equator, Longitude and Latitude along with the diagram? **(3 Marks)**

b) Explain the difference between an angle of Elevation and angle of Inclination with the help of a diagram? **(5 Marks)**

c) Explain the difference between baseband and broadband transmission? **(2 Marks)**

Q2: a) What are the two main goals of routing algorithm? Discuss. Also highlight the importance of ISL. **(4 Marks)**

b) Using (MCA) routing Algorithm. Find the path from source 'S' to destination 'D' that has the minimum load? **(4 Marks)**



c) What is a difference between a Half duplex and a Full Duplex communication? Write at least two examples with each one of them. **(2 Marks)**

Q3: a) Explain in brief the main components of a Satellite Subsystem? Also draw the diagram. **(5 Marks)**

b) Where are the Dual-conversion down converters used in the Satellite Communication for RF tuning and IF tuning? Also make their Diagrams. **(5 Marks)**
