J.C. Bose University of Science and technology, YMCA, Faridabad
B. Tech 1st semester Mechanical Engineering (M12)
Sessional 1st (Basics of Electrical Technology)

Max. Time 90 minutes **Max. Marks 15**

Note: - Attempt any three. All question carry equal marks.

Q1. State and explain the maximum power transfer theorem with suitable example.

Q2. Using Nodal analysis method, find the each branch current in figure 1.

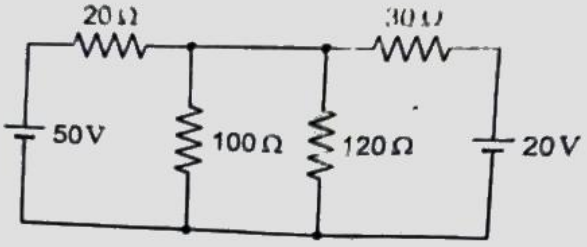

Figure.1.

Q3. Find the current in 6Ω resistor in circuit given below in figure2 using Norton theorem.

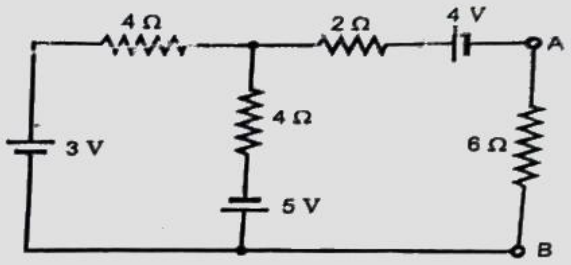

Figure2.

Q4. Find the current in 6Ω resistor using superposition theorem in figure3 given below.

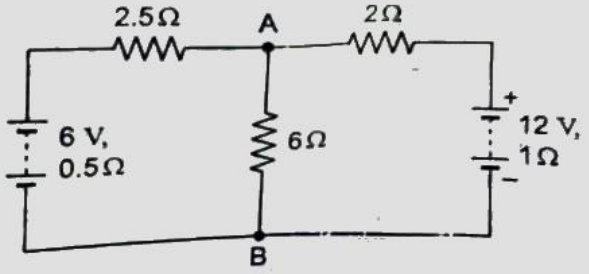

Figure 3