

Quiz 2 set B
BRAC University
Semester: Spring 2024

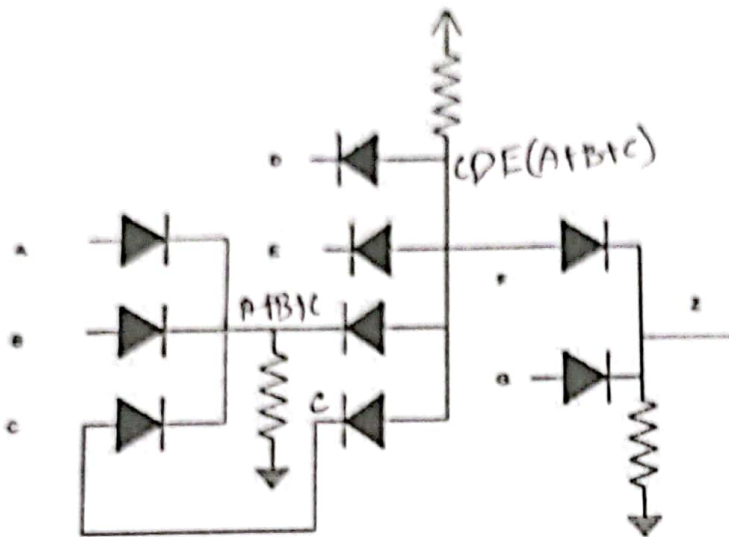
Course No: CSE251
Course Title: Electronic Devices and Circuits
Faculty: AGS

Marks: 10
Time: 15 minutes

1. Find expression of Z in terms of A, B, C, D, E, F and G. (CO2)

[3+2]

a)



$$Z = CDE(A+B+C) + G$$

✓ 5/

b)

A= 1V, B= 2.3V, C= 0.9V, D= 1.5V,
E= 0.9V, G= 2.8V, Z=?

$$A+B+C = 2.3 \text{ V} \quad \checkmark$$

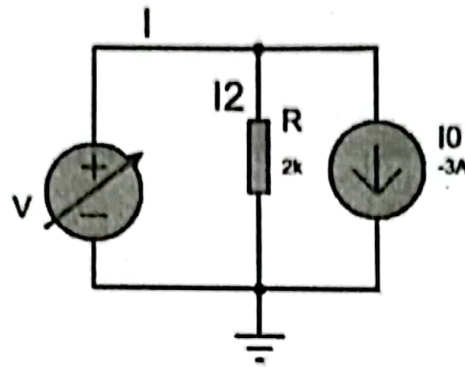
$$F = CDE(A+B+C) = 0.9 \text{ V} \quad \checkmark$$

$$Z = 2.8 \text{ V} = G.$$

✓ (Ans).

2. Draw I-V characteristics for the following circuit-(CO1)

[5]



$$I_0 = -3A \quad R = 2k$$

$$c = -3$$

$$y = mx + c$$

$$\left(m = \frac{1}{R}\right)$$

$$= \frac{1}{2}$$

$$I = \frac{1}{2} V - 3$$

$$V_0 = -I_0 R$$

$$= -(-3) \times 2k$$

$$= 6V$$

