

Final Assessment Test - June 2023

Course: BEEE102L - Basic Electrical and Electronics Engineering Class NBR(s): 0371/0390/0420

Time: Three Hours

Slot: B1+TB1

KEEPING MOBILE PHONE/SMART WATCH, EVEN IN 'OFF' POSITION IS TREATED AS EXAM MALPRACTICE General Instructions: Always maintain an accuracy of at least 3 decimal digits. Max. Marks: 100

Answer any TEN Questions (10 X 10 = 100 Marks)

- Determine the following for the circuit depicted in Fig. 1.
  - (a)  $I_{3\Omega}$  (b)  $I_{2\Omega}$  (c)  $I_{1\Omega}$  (d)  $I_{0.1\Omega}$  (e) Power supplied by the 11A current source. (Answers for the currents must conform to the directions of the arrows shown in Fig. 1).

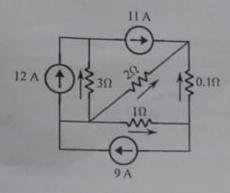


Fig. 1

a) Calculate the resistance between the terminals 'a' and 'b' as shown in [4] Fig. 2(a).

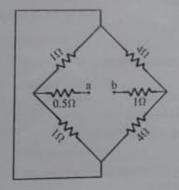


Fig. 2(a)