

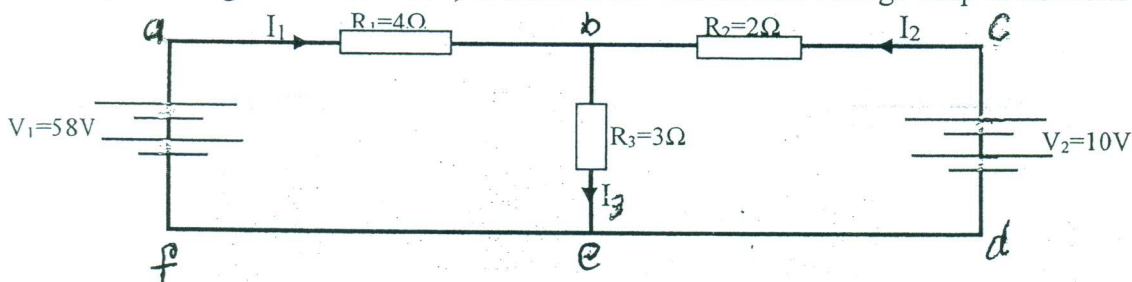
COURSE CODE AND TITLE: ITE 353, CIRCUIT THEORY

INSTRUCTIONS: Answer any Four (4) Questions

TIME ALLOWED – 2 hours

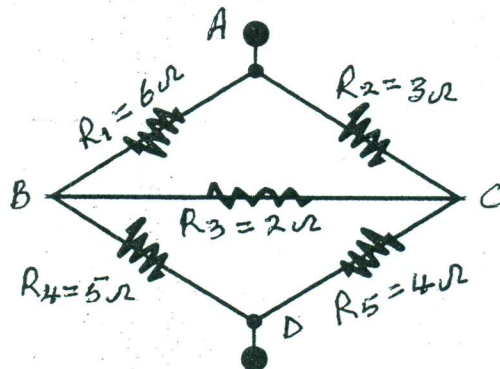
1(a). Differentiate between junction and node in an electrical circuit?

(b). Using Kirchhoff's law, determine the current and voltage drop of network below?



2(a). With the aid of a diagram, explain what is mesh or loop?

(b). Using Star-Delta transformation, obtain the equivalent resistance of the network below?



3(a). Distinguish between active and passive network?

(b). Using Superposition theorem, determine the current I?

