## **Module 10: Short questions**

- 1. How does mass transfer differ from bulk flow? Can mass transfer occur in a homogeneous medium?
- 2. Give examples for (a) liquid-to-gas (b) solid-to-liquid, (c) solid-to-gas, and (d) gas-to-liquid mass transfer.
- 3. What is the driving force for (a) heat transfer (b) electric current (c) fluid flow and (d) mass transfer?
- 4. What is an impermeable surface in mass transfer? How is it expressed mathematically? To what does it correspond in heat transfer?
- 5. What is concentration boundary layer? How is it defined for flow over flat plate?
- 6. What is the physical significance of the Schmidt number? What is the heat transfer equivalent of this number? What does Sc = 1 signify?
- 7. What is the physical significance of the Lewis number? What is the heat transfer equivalent of this number? What does Sc = 1 signify?
- 8. What is the physical significance of the Sherwood number? What is the heat transfer equivalent of this number? What does Sh = 1 signify for a plain fluid layer?