MCQ

H.7. Blood Circulation and Glymphatic System

1. The blood brain barrier is caused by:
   a) The lack of lymphatic vessels
   b) The presence of lymphatic vessels
   c) The lack of tight junctions in the capillaries
   d) The presence of tight junctions in the capillaries

2. Which substance can be transported through the brain capillaries to the brain tissue?
   a) Oxygen, carbon dioxide and fat-soluble molecules
   b) Only oxygen and carbon dioxide
   c) Oxygen, carbon dioxide and non-fat soluble molecules
   d) Oxygen, carbon dioxide, sodium and potassium ions

3. Is there a lymphatic system in the brain?
   a) No, there is no lymphatic system as in other tissues
   b) Yes, there is a lymphatic system as in other tissues
   c) Yes, but it is different from that in other tissues
   d) No, it is not different from that in other tissues

4. Why is the lymphatic system in the brain called the glymphatic system?
   a) Because the lymphatic system in the brain is concentrated in the arachnoid space
   b) Because glia cells play an essential role in the removal of waste products
   c) Because glia cells are connected with a ‘foot’ to the capillary membranes
   d) Because glia cells are also called astrocytes.

Answers:

1) d.
2) a.
3) c.
4) b.