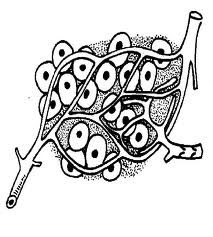
**Q 2014 3**

The diagram shows a region of tissue that includes body cells and parts of the circulatory and lymphatic systems.



Direction of blood flow

Body Cells

A

C

B

* 1. Name part C.
  2. What type of blood vessel is A?
  3. If a transverse section of A were viewed under the microscope state **one** way in which it would differ from a transverse section through B.
  4. Give **two** functions of the lymphatic system.

1.

2.

* 1. Give **one** way in which lymph differs from blood.
  2. Name a major blood vessel that returns the blood in B to the heart.

**MS 2014 3**

|  |  |
| --- | --- |
| **3.** | **8 + 7 + 5(1)** |
| (a) | C **=** Lymph vessel |
| (b) | Arteriole [*accept* artery] |
| (c) | Narrow(er) lumen **or** thick(er) wall **or** no valves |
| (d) | Maintains a constant level of ECF **or** drains fluid or returns fluid to blood / manufacture of |
|  | lymphocytes **or** maturation of lymphocytes / filtering bacteria / fighting infection / |
|  | transport of named material |
| (e) | No red blood cells **or** no haemoglobin / no platelets / no clotting (proteins) / |
|  | higher fat level [*accept* correct colour difference] |
| (f) | Vena cava |