

BIOLOGY S 5 WEEKLY TASK 05/05/2020.....ANSWER GUIDE

1. a) Name two areas in the human body where each of the following is found

i) Stratified squamous epithelium.

(01mark)

- the skin
- mouth
- esophagus
- vagina

ii) Collagen tissue.

(01mark)

- tendons,
- ligaments,
- skin

b) Explain how the structure of collagen tissue is adapted for its function. (03marks)

- possess elastic fibres that allows stretching to varying length as in the skin and tendons
- possess fibroblasts that secrete new collagen fibres to replace worn out ones.
- possess long fibres that enable it connect different tissues together as in ligaments, skin and tendons

c) Explain the importance of simple squamous epithelium in walls of blood capillaries.

(02marks)

- ensures that the capillary wall is thin for faster exchange of circulatory fluids and gases.
- forms a smooth lining surface for un impeded flow of circulatory fluids .

d) Draw the structure of ciliated columnar epithelium tissue in the space below. Do not label.

(03marks)

