**1.** (a) Distinguish between the mode of action of protein hormones and steroid hormones.

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(2)

(b) Label the indicated structures in the micrograph of exocrine gland cells below.



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I. ..................................................................................................................................

II. .................................................................................................................................

(2)

(c) Outline the control of the secretion of gastric juice by nerves and hormones.

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(4)

(Total 8 marks)

**2.** (a) Distinguish between the mode of action of steroid hormones and protein hormones.

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(2)

(b) State the major role of *Helicobacter pylori* in the development of stomach ulcers.

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(1)

(Total 3 marks)

**3.** (a) Distinguish between the mode of action of steroid and protein hormones.

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(2)

(b) Explain the events of the cardiac cycle including systole, diastole and heart sounds.

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(6)

(Total 8 marks)