**Review Worksheet: Adrenal Hormones**

*Do these questions using your learning resources. Look at the “marks” to give you an idea of the level of detail required in the response (formative only – does not count towards your grade). At the end, mark your work, and fill in the reflection section. Questions marked \* require you to use reasoning, inferring and application of knowledge to get the answer. It won’t be right there in the text.*

1: Where are the adrenal glands located?

(1 mark)

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2: Give two examples of catecholamines and state where are they produced.

(2 marks)

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3: Fill in the blanks:

(7 marks)

……………………………………. is a mineralocorticoid. It is produced by the adrenal ……………….

and has a role in maintaining ………………….. and ……………… levels in the body. It acts on the

…………………………. ……………………….. in the kidney causing increased ……………… and

……………………….. absorption and ……………………… secretion.

Cortisol is a …………………………, produced by the adrenal ……………………… . It has a role in

response to …………………… ……………………… and …………………………

4: a) What is the stimulus for aldosterone release from the adrenal cortex?

(1 mark)

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b) What is the target organ for aldosterone, and what is its response?

(3 marks)

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c) What would you expect to happen to the production of aldosterone once the Na+/K+ levels in the blood normalise?

(1 mark)

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5: Draw a flow diagram showing the regulation of cortisol including its effects on the target tissues.

(8 marks)

6: Catecholamines such as adrenalin are released from the adrenal medulla when threat is detected by the brain. Describe the pathway and type of messages between the hypothalamus and adrenal medulla that result in catecholamine release.

(1 mark)

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7: How does the body respond to catecholamine release from the adrenal medulla?

(3 marks)

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8: Describe how the body changes that occur due to catecholamine release would assist in the fight or flight response. (5 marks) \*

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Go back and mark your work using the marking key provided. What score did you get? /32

*I included enough detail in my answers.*



*I was able to find information in the text/powerpoint presentation.*

*I was able to reason and infer where the information wasn’t directly in the text (questions with \*).*

*I marked my work and wrote down any answers where I missed marks.*