



**Biology 12**  
**Resource Exam A**  
Response Booklet



## **PART B: WRITTEN RESPONSE**

**Value: 23 marks**

**Suggested Time: 40 minutes**

**INSTRUCTIONS:** 1. Answer the following questions in the space provided in this **Response Booklet**.  
2. Use a pen for this part of the examination unless otherwise instructed.  
3. You may not need all of the space provided to answer each question.

1. Describe the events of the process of transcription in the correct order. **(3 marks)**

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2. Describe how gastric secretions contribute to the breakdown of proteins. Explain why the stomach tissues are not digested by this process. **(5 marks)**

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3. Explain the importance and the role of the placenta, the arterial duct and the oval opening in fetal circulation.

**(5 marks)**

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4. Describe how an action potential reaching the axon bulb (terminal) of one neuron can trigger an action potential in the dendrite of another neuron. **(5 marks)**

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5. Describe how the functions of the ovaries are controlled by the hypothalamus. **(5 marks)**

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