



BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS  
MLU1142 – ANATOMY AND PHYSIOLOGY – LEVEL 3  
FINAL EXAMINATION  
DURATION: TWO HOURS

DATE: 5<sup>th</sup> MARCH 2019

TIME: 09.30 AM – 11.30 AM

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**Part B –Short Answer Questions**

*(40 marks)*

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Write answers in the space provided.

2.1 Define the term “Glomerular filtration rate”.

[5 marks]

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2.2 Briefly explain the role of surfactant in the lung alveoli.

[10 marks]

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2.3 Write a brief account on the structure of cardiac muscle.

[10 marks]

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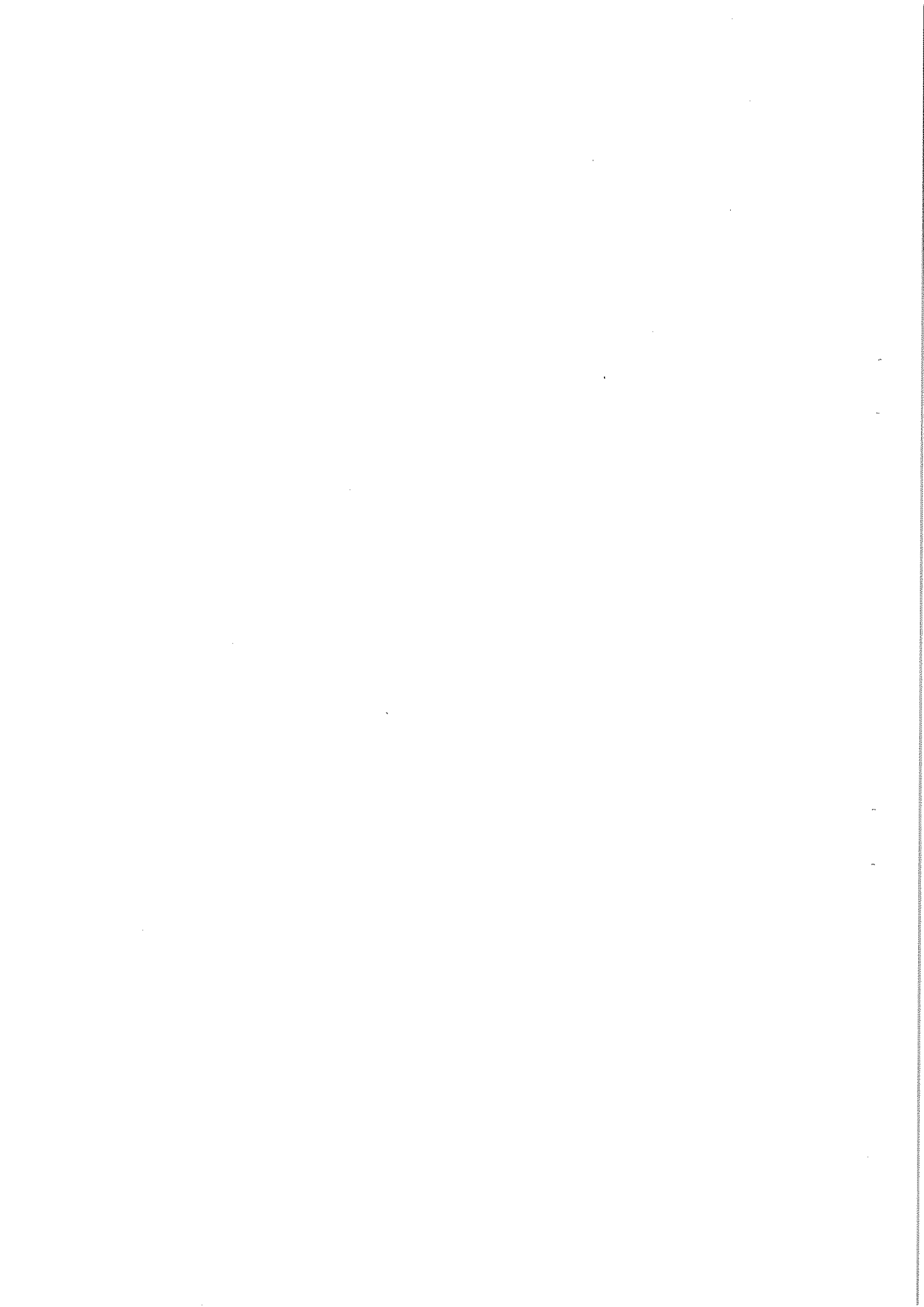
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**2.4 Draw a clearly labelled diagram of the hypothalamo-pituitary-ovarian axis.**

**[10 marks]**

**2.5 Draw a clearly labelled diagram that shows the structure of a typical neuron.**

**[5 marks]**

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**Part C –Essay Questions****(30 marks)**

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Answer only two (02) questions out of three (03) questions.

Write answers in separate sheets.

1. Describe the structure of the cell membrane in a typical mammalian cell.  
[15 marks]
2. Describe the mechanisms that prevent blood loss when a blood vessel is damaged.  
[15 marks]
3. Explain the role of pancreas in digestion, absorption and metabolism of lipids.  
[15 marks]