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2.1 Describe the arrangement of pacemaker and conduction system of the heart. (20 marks)

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2.2 Explain the term 'automaticity' in relation to pacemaker cells. (10 marks)

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2.3 Describe the ionic basis of occurrence of action potentials in pacemaker cells. (20 marks)

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3.

3.1

3.1.1 List five (5) functions of stomach (10 marks)

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3.1.2 Briefly describe the role of stomach in absorption of vitamins (10 marks)

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3.1.3 Briefly describe what is meant by mucosal barrier in stomach (15 marks)

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3.1.4 Briefly describe the role and the regulation of parietal cell activity in stomach (15 marks)

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3.2

3.2.1 List five (05) functions of blood (15Marks)

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3.2.2. A patient was admitted to the emergency unit following a stab injury. He had bleeding wounds and the blood pressure was 80/40 mmHg and the pulse rate was 140/min. Skin was cold.

3.2.2.1 Explain physiologically

a). Low Blood pressure of him (10 marks)

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b). Increased pulse rate (15 marks)

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c). Dry Skin (05 Marks)

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3.2.2.2. State two (2) immediate measures you would perform for this patient until the medical officer is able to attend to this patient.

(05 marks)

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