

1.1.4. Describe difference between simple diffusion and facilitated diffusion? **(10 marks)**

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1.2

1.2.1. Name the factors involved in primary arresting of bleeding? **(10 marks)**

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1.2.2. Name one disease condition due to disorder of each factor you mentioned in 1.1. **(10 marks)**

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1.2.3. Briefly describe the secondary haemostasis. **(10 marks)**

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1.2.4. Briefly describe two disease conditions belongs to acquired coagulation disorders. **(20 marks)**

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2.

2.1. What is external respiration?

(10 marks)

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2.2. What is internal respiration?

(10 marks)

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2.3. Explain the pressure changes in (a) lung and (b) intrapleural space during inspiration and during expiration.

(30 marks)

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2.4. Outline the role of chemoreceptors on regulation of respiration.

(20 marks)

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2.5. Partial pressure of oxygen is 150 mmHg in atmospheric air and 100 mmHg in the alveolar air. Explain the reason for this difference.

(30 marks)

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4.

4.1. Describe the conduction system of the heart. **(20 marks)**

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4.2. Draw an action potential of a pacemaker cell and explain the ionic changes that occur during different parts of it. **(30 marks)**

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4.3. Explain what happens to pacemaker potentials during vagal stimulation. **(10 marks)**

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4.4. State two benefits of the diastolic time in cardiac cycle. **(10 marks)**

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4.5. Describe the role of baroreceptors in regulation of blood pressure. **(30 marks)**

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6.2. Heart is a hollow muscular organ located in the mediastinum of the thoracic cavity.

6.2.1. Draw a labeled diagram to show the arrangement of the pericardium.

(10 marks)

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6.2.2. State the nerve supply of the pericardium.

(05 marks)

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6.2.3. List the openings of the right atrium

(05 marks)

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6.2.4. Name the coronary arteries and its main branches that supplies to the heart.

(05 marks)

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