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(Total: 20 Marks)

2. Vitamins are organic compounds required in very small amounts for human wellbeing.

2.1.1. List two (02) functions of vitamins giving one (01) vitamin as an example for each function. (04 marks)

A.
.....
B.
.....

2.2. Give two (02) examples for fat soluble vitamins. (02 marks)

A.
B.

2.3. List four (04) characteristic features of fat-soluble vitamins. (04 marks)

A.
B.
C.
D.

2.4. Briefly describe the importance of Vitamin C. (10 marks)

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(Total: 20 Marks)

3. A tumour marker is defined as a biomolecule which is produced by the tumour cells or by the host's cells in response to a tumour.

3.1. List two (02) enzymes which can be used as tumor markers. (02 marks)

- A.
- B.

3.2. List two (02) hormones which can be used as tumor markers. (02 marks)

- A.
- B.

3.3. List two (02) methods which can be used to detect tumor markers. (02 marks)

- A.
- B.

4. The knowledge of elimination kinetics of a drug is important in prescribing and modifying dosage regime according to individual's need.

4.1. Briefly describe the term "apparent volume of distribution". (02 marks)

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4.1.1. List four (04) instances which could lead to elevation of volume distribution of a drug. (04 marks)

- A.
- B.
- C.
- D.

4.2. Briefly describe the term "bio-transformation of drugs". (06 marks)

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4.3. Write a short note on "hepatic clearance of drugs". (08 marks)

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PART C – Essay Questions

- 1. Write an essay on “hormones secreted by adrenal cortex” (30 marks)
- 2. Write an essay on “biological importance of minerals”. (30 marks)
