

**DATE: 20<sup>TH</sup> MARCH 2023**

**TIME: 9.30 A.M. – 12.30 P.M.**

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**Part B – Structured Essay Questions (60 Marks)**

1.
  - 1.1 Define the term “hemolytic anemia”. (02 marks)
  - 1.2 List three (03) main aetiological categories of anaemia. (03 marks)
  - 1.3 Comment on the following statements.
    - A. Folate deficiency leads to anaemic conditions.
    - B. Exposure to toxic chemicals can lead to bone marrow failure. (10 marks)
  
2.
  - 2.1 Define “emphysema”. (02 marks)
  - 2.2 List three (03) main types of emphysema according to the site of damage. (03 marks)
  - 2.3 Briefly describe following.
    - A. Chronic bronchitis
    - B. Chronic obstructive pulmonary disease (COPD) (10 marks)
  
3.
  - 3.1 What is bone remodeling cycle? (02 marks)
  - 3.2 Define the following disease conditions.
    - A. Osteoporosis
    - B. Osteomalacia (04 marks)
  - 3.3 “Metabolic bone disorders are closely linked with calcium metabolism.”  
Discuss the above statement. (09 marks)
  
4.
  - 4.1
    - 4.1.1 List four (04) clinical signs of cirrhosis. (04 marks)
    - 4.1.2 List three (03) main characteristics of cirrhosis. (03 marks)
  - 4.2
    - 4.2.1 Outline the pathogenesis of diabetes mellitus. (03 marks)
    - 4.2.2 Briefly discuss two (02) complications of diabetes mellitus. (05 marks)

