



4. a) Explain the sources and functions of the following hormones: Follicle stimulating hormone (FSH), Luteinizing hormone (LH), progesterone, estrogen and testosterone(5 Marks )
- b) Mention the two (2) phases of the menstrual cycle and state the duration of each (4 Marks )
- c) Briefly explain the classification of abortion (7 Marks )
- d) Define infertility and mention any four (4) causes of female infertility (6 Marks )
5. a) Briefly discuss the classification of bones, giving one example of each class (8 Marks )
- b) Briefly describe the functional classification of joints, giving at least one example of each type of joint. (6 Marks )
- c) Mrs. Banda is a 65-year-old retired teacher currently on crutches for a fracture she sustained 2 weeks ago after slipping off from her chair. She explains that when she 36 years, she was involved in a road traffic accident but did not sustain any fracture but only a small cut on her forehead but she adds that she has been taking alcohol for over 30 years. What condition is Mrs. Banda suffering from and what three risk factors for the condition can identify in this scenario? (6 Marks )
6. a) Define ectopic pregnancy and state any 5 causes (6 Marks )
- b) Mention the hormones involved in lactation. What are their sources and their functions (8Marks )
- c) Define spermatogenesis and state the site and hormone(s) that control spermatogenesis. State any two suitable conditions for spermatogenesis (6 Marks )
7. a) Briefly describe the structural classification of joints, giving at least one example of each type of joint. (6 Marks )
- b) Discuss the cell types and their functions found in bone tissue(6 Marks )
- c) Discuss the nutritional basis of osteomalacia (5 Marks )
- d) Define arthritis and give any 4 signs and symptoms (3 Marks )