

First BHMS Degree Regular/Supplementary Examinations May 2023

Physiology & Biochemistry I

Time: 3 hrs

Max marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answer*
- *Draw diagram wherever necessary*

Long Essay

(2x15=30)

1. Define Erythropoeisis. Mention the sites of erythrocyte production in fetal life. Explain the stages of erythropoiesis. Mention the factors influencing erythropoiesis (2+2+8+3)
2. Define cardiac output. Mention the methods to determine cardiac output. Describe the factors influencing cardiac output (2+3+10)

Short Essay

(5x8=40)

3. Explain acidification of urine
4. Enlist the types of reticulo endothelial cells. Explain the functions (3+5)
5. Name the muscles of respiration. Explain the mechanism of respiration (3+5)
6. Describe the sodium reabsorption by the kidney
7. Describe the excitation –contraction coupling mechanism

Short notes

(10x3=30)

8. List the types of endoplasmic reticulum. Write three functions of each
9. Define immunity. Give examples for innate immunity
10. Sketch the conducting system of the heart
11. Name the lung volumes. Mention their normal value
12. Define nephron. Mention the types. List three differences between them
13. Mention the types of sweat glands. State their differences
14. Define sarcomere. mention the components with a neat diagram
15. Dialysis
16. State the indications for blood transfusion
17. Name the heart sounds. Mention the causes for each heart sound
