

First BHMS Degree Supplementary Examinations April 2024

**Physiology & Biochemistry I
(2015 Scheme)**

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 hemostasis. Explain the role of platelets in hemostasis. Add a note on purpura. (2+8+5)
2. Define blood pressure. Explain the regulation of arterial blood pressure. Write a note on hypertension. (2+10+3)

Short Essay

(5x8=40)

3. Describe the synthesis and functions of haemoglobin. (5+3)
4. Describe the mechanism of glomerular filtration and its regulation. (4 +4)
5. Describe the mechanism of regulation of body temperature. (4 +4)
6. Describe the various lung volumes. Write note on spirometer. (6 +2)
7. Describe the mechanism of O₂ transport in blood. Write note on oxygen dissociation curve. (5+3)

Short notes

(10x3=30)

8. Endoplasmic reticulum and its functions.
9. Factors affecting diffusion.
10. Types of nephron.
11. Loop of henle.
12. Structure and functions of spleen.
13. Conductive system of heart.
14. First and second heart sounds.
15. Neuromuscular transmission.
16. Sarcomere.
17. Vital capacity.
