

**First BHMS Degree Supplementary Examinations July 2022**

**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. Explain respiratory centre and chemical regulation of respiration (7+8)
2. Definition and duration of cardiac cycle. Explain atrial and ventricular events of cardiac cycle. (2+1+12)

**Short Essay**

**(5x8=40)**

3. Explain the regulation of body temperature
4. Explain the intrinsic mechanism of blood clotting
5. What is immunity and write different types of immunity. Describe the humoral immunity.
6. Describe the counter current mechanism
7. Describe normal ECG in terms of leads, waves and its significance

**Short notes**

**(10x3=30)**

8. Active Transport.
9. Write briefly about different types of haemoglobin
10. Sketch the renin angiotensin mechanism. Enumerate its functions
11. Define hypoxia. List the types. Mention the differences
12. Outline the glucose reabsorption by the kidney
13. Enumerate the functions of skin
14. Define refractory period. Mention the types. Differentiate them
15. State the functions of plasma proteins
16. Outline the chloride shift process
17. Mention the various buffer systems of the body. outline the action of bicarbonate buffer system

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