

**First BHMS Degree Supplementary Examinations October 2021**

**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. Explain Erythropoiesis. What are the sites of Erythropoiesis at different stages of life.

Describe in brief the fate of hemoglobin (2+3+10)

2. Define cardiac cycle. What are the different stages of cardiac cycle. Briefly describe

Ventricular diastole (2+5+8)

**Short Essay**

**(5x8=40)**

3. Oxygen dissociation curve
4. Acidification of urine
5. Reabsorption of water by kidney
6. Haemostasis
7. Regulation of respiration

**Short notes**

**(10x3=30)**

8. Action potential of membrane
9. Properties of smooth muscle
10. Erythrocyte sedimentation rate
11. Hypothermia.
12. Juxta glomerular apparatus
13. Transporters through cell membrane
14. Lysosomes
15. Kussmaul's breathing
16. Preload
17. Effective refractory period

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