Q.P. Code: 114004	Reg. No.:
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## First BHMS Degree Supplementary Examinations March 2017

## Physiology & Biochemistry I (2015 scheme)

Time: 3 hrs Max marks: 100

- **Answer all questions**
- Draw diagram wherever necessary

Long Essay (2x15=30)

- 1. Enumerate the plasma proteins. Describe the sites of their production, levels in plasma and functions. Define edema and mention its cause (3+3+3+3+3=15)
- 2. Define arterial blood pressure and describe the factors regulating it. (3+12=15)

**Short Essay** (5x8=40)

3. Describe the process of erythropoiesis and factors necessary for it

(6+2=8)

- 4. Describe the transport of oxygen in blood. What is Bohr effect (6+2=8)
- 5. Describe the neural regulation of respiration. Add a note on Cheyne stokes breathing (6+2=8)
- 6. Describe micturition reflex and add a note on the role of autonomic nervous system in controlling micturition. (6+2=8)
- 7. What are the mechanisms of heat gain and heat loss in the body. How does sweat help in regulation of body temperature (6+2=8)

**Short notes** (10x3=30)

- 8. Types of intercellular junctions
- 9. Mitochondria
- 10. Rh. factor
- 11. Staircase phenomenon
- 12. Stroke volume
- 13. Caisson's disease
- 14. Glomerular filtration rate
- 15. Hypothermia
- 16. Excitation contraction coupling
- 17. Lambert Eaton syndrome

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