

**End Semester Examinations - 2015-16 Even Semester - May 2016**

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**14BT2043 Human Physiology**

**Set A**

**Time : 3 hrs**  
**Total Marks: 100**

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1. Discuss the function of the following with respective diagram  
A Mitochondria (5 Marks)  
B. Endoplasmic reticulum (5 Marks)  
C. Negative and Positive Feedback mechanism in Homeostasis (10 Marks)  
**OR**
2. A. Explain in detail about the structure and function of Plasma Membrane with a neat sketch (10 Marks)  
B. Discuss the types and Mechanism of Active transport involved in transport of Molecules with necessary diagrams (10 Marks)
3. A. Write a note on the Resting and Action Potential in squid neuron system (10 Marks)  
B. Write a detailed note on G protein coupled receptor in signal transduction (10 Marks)  
**OR**
4. Describe the Major endocrine system and their target tissues (20 Marks)
5. Explain the classification and Hormones secreted by Pituitary glands and its functions (20 Marks)  
**OR**
6. A. Draw the structure of the Brain and discuss the functional area of cerebrum and cerebellum (10 Marks)  
B. Explain in detail about the Autonomous Nervous System with examples (10 Marks)
7. Describe the organs involved in respiratory system and write the mechanism of respiration with respective diagrams (20 Marks)  
**OR**
8. A. With a neat diagram discuss the Mechanism of circulatory system in Humans (10 Marks)  
B. How can you give first aid to a heart patient and write a note on the cardiac cycle (10 Marks)
9. Explain the process of Meiotic cell division during fertilization (20 Marks)

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**Wishing you All the Best**

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