

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BPHARM – SEMESTER II • EXAMINATION – WINTER • 2014**

**Subject code: 220004**

**Date: 05-12-2014**

**Subject Name: Anatomy Physiology and Health Education - II**

**Time: 02:30 pm - 05:30 pm**

**Total Marks: 80**

**Instructions:**

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1** (a) Define Blood Pressure. Explain types of blood pressure and regulation of blood pressure **06**  
(b) Write a note on physiology of urine formation **05**  
(c) Describe the phases of menstruation cycle **05**
- Q.2** (a) Discuss anatomy and physiology of adrenal gland **06**  
(b) Draw the labeled diagram of human brain. **05**  
(c) Write a note on ageing process. **05**
- Q.3** (a) Define nervous system. Differentiate the sympathetic and parasympathetic nervous system. **06**  
(b) Write a note on cardiac cycle **05**  
(c) Write a note on ECG. **05**
- Q.4** (a) Define the following term: **06**  
a. Acromegaly d. Diabetes melitus  
b. Action potential e. Cardiac output  
c. Angina pectoris f. goitre  
(b) Write a note on erythropoiesis. **05**  
(c) Write a note on respiratory volumes and capacity. **05**
- Q.5** (a) Draw and explain the reflex arch. **06**  
(b) Discuss the hormone which regulates the blood sugar level. **05**  
(c) Write a note on spermatogenesis. **05**
- Q. 6** (a) Discuss the anatomy and physiology of functional unit of kidney. **06**  
(b) Write a note on mechanism of respiration **05**  
(c) Draw the labeled diagram of neuron and explain it. **05**
- Q.7** (a) Write a note on physiology of vision **06**  
(b) Define first aid. Discuss the first aid for the snake bite. **05**  
(c) Draw the labeled diagram of heart **05**

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