

GUJARAT TECHNOLOGICAL UNIVERSITY**B.PHARM- SEM-II-EXAMINATION – JUNE 2012****Subject code: 220004****Date: 18/06/2012****Subject Name: Anatomy Physiology and Health Education-II****Time: 10:30 am – 01:30 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) Draw a labeled diagram of different parts of nephron and describe in detail glomerular filtration process. **06**
- (b) Describe formation, storage and release of thyroid hormones. **05**
- (c) Draw a labeled diagram of detailed structure of Skin. **05**
- Q.2** (a) Describe effect of Acetylcholine on the following organs: **06**
- i) Eye
 - ii) Pancreas
 - iii) Heart
 - iv) Urinary bladder
 - v) Liver
 - vi) Intestine.
- (b) Differentiate the followings: **05**
- i) EPSP and IPSP
 - ii) Sympathetic system and Parasympathetic system
- (c) Draw a labeled diagram of Male reproductive system. **05**
- Q.3** (a) Explain mechanism and regulation of respiration. **06**
- (b) Enumerate pituitary gland hormones and give principal actions of all hormones **05**
- (c) Write a note on anatomy and physiology of Medulla oblongata. **05**
- Q.4** (a) Describe following diseases briefly : **06**
- i) Asthma
 - ii) Diabetes Mellitus
- (b) Explain in detail physiology of hearing. **05**
- (c) Enumerate principal parts of the followings: **05**
- i) Cerebellum
 - ii) Limbic system
- Q.5** (a) Explain in detail importance of buffer system for Acid-Base balance. **06**
- (b) Describe in detail functions of hypothalamus. **05**
- (c) Discuss effect of ageing on the following system/organ. **05**
- i) Female reproductive system
 - ii) Eye
- Q. 6** (a) What is Blood pressure? Discuss in detail factors regulating blood pressure. **06**

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| | (b) | Describe various events occurs during cardiac cycle. | 05 |
| | (c) | Write a note on Extrapramidal tract. | 05 |
| Q.7 | (a) | Describe various events occur during different phases of menstrual cycle. | 06 |
| | (b) | Explain conduction system of heart | 05 |
| | (c) | Write a note on ECG | 05 |
