

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**

- (b) Describe various events occurs during cardiac cycle. **05**
- (c) Write a note on Extrapiramidal 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**
