

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Semester-II Examination June 2011

Subject code: 220004

Subject Name: Anatomy Physiology and Health Education-II

Date: 25/06/11

Total Marks: 80

Time: 10:30am-1:30pm

Instructions:

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

- Q.1** (a) Explain following terms: **06**
1. Blood pressure 2. Pheromones 3. Spermatogenesis
4. Expiratory reserve volume 5. Cretinism 6. Glaucoma
(b) Draw a labeled diagram of Human Brain. Write a note on cerebral cortex. **05**
(c) Write a note on electroencephalogram (EEG). **05**
- Q.2** (a) Classify hormones. Add a note on hormone obtained from β -cells of islets of langerhans. **06**
(b) Write the differences between parasympathetic and sympathetic system. **05**
(c) Write a note on reflex-action. **05**
- Q.3** (a) Explain anatomy of internal structure of ear with neat and labeled diagram. **06**
(b) Enlist different sex hormones and write their functions in detail. **05**
(c) Write a short note on internal respiration. **05**
- Q.4** (a) Define cardiac cycle. Describe events of cardiac cycle in detail. **06**
(b) Explain in detail about role of renin angiotensin system for blood pressure regulation in kidney. **05**
(c) Write about body temperature homeostasis. **05**
- Q.5** (a) Draw a labeled diagram of internal structure of heart. Write a note on pulmonary circulation. **06**
(b) Define Neurotransmitters. Write their characteristics along with various examples of it. **05**
(c) Write a note on properties of cardiac muscle. **05**
- Q. 6** (a) Explain in detail about synthesis and metabolism of Acetylcholine. **06**
(b) What is menstruation? Write in detail about various phases of menstrual cycle. **05**
(c) Draw a labeled diagram of lungs. Describe its function. **05**
- Q. 7** (a) Write in detail about structural and functional unit of kidney. **06**
(b) Discuss in detail about anatomy of male reproductive system with neat and labeled diagram. **05**
(c) Write a short note on **05**
1. Physiology of ageing 2. Cerebral ventricles
