

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph SEM-II Examination- Dec.-2011

Subject code: 220007

Date: 20/12/2011

Subject Name: Human 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) Describe physiology of hearing with suitable diagram. | 06 |
| | (b) Differentiate parasympathetic and sympathetic nervous system. | 05 |
| | (c) Explain the terms: (I) Refraction errors of eyes (II) Glaucoma. | 05 |
| Q.2 | (a) Explain synthesis, storage and release of thyroid gland hormones. | 06 |
| | (b) Enumerate hormones of Pituitary gland. Write a brief note on anterior pituitary gland hormones. | 05 |
| | (c) Draw a neat and labeled diagram of brain and enumerate function of each part. | 05 |
| Q.3 | (a) Enumerate parts of brain stem. Describe in detail the medulla oblongata. | 06 |
| | (b) What is reflex? Describe in detail the types of reflexes. | 05 |
| | (c) Write a short note on cerebrospinal fluid. | 05 |
| Q.4 | (a) Draw a labeled diagram of functional unit of kidney. Explain physiology of urine formation. | 06 |
| | (b) Write a brief note on structure and functions of skin. | 05 |
| | (c) What do you understand by family planning? Explain surgical methods of family planning. | 05 |
| Q.5 | (a) Write in brief on causative agent, mode of spread, prevention and treatment of Typhoid fever. | 06 |
| | (b) How do endocrine glands help regulate calcium levels in blood? | 05 |
| | (c) Explain the terms: (I) Bronchial Asthma (II) Alzheimer's Disease (III) Addison's disease (IV) Renal calculi | 05 |
| Q. 6 | (a) Draw a labeled diagram of male reproductive system and a brief note of spermatogenesis. | 06 |
| | (b) What is epidemiological triad? Explain concept of disease. | 05 |
| | (c) Describe first aid treatment of Burns. | 05 |
| Q. 7 | (a) Define internal respiration. How does exchange of gases take place at lung and tissue level during respiration? | 06 |
| | (b) Describe in detail the symptoms and treatment of food poisoning. | 05 |
| | (c) Explain the terms: (I) Vital capacity (II) Premenstrual syndrome (III) Cystic fibrosis (IV) Diabetes insipidus | 05 |
