

GUJARAT TECHNOLOGICAL UNIVERSITY**BP HARM – SEMESTER II • EXAMINATION – WINTER • 2014****Subject code: 220007****Date: 05-12-2014****Subject Name: Human 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) Differentiate between a) Sympathetic and Parasympathetic system **06**
b) Artery and Vein
- (b) Explain the effect of sympathetic stimulation on following organs – Heart, **05**
Eye, Salivary glands.
- (c) Explain the physiology of Nerve conduction. Give the functions of **05**
Hypothalamus.
- Q.2** (a) Explain the following with significance : any three **06**
1. EEG 2. FEV₁ 3. EPSP 4. ACTH
- (b) Draw a neat and labeled diagram of the Human Eye. **05**
- (c) Write a note on physiology of Hearing. **05**
- Q.3** (a) Explain the Physiology of Urine formation. **06**
- (b) Enumerate hormones of Pituitary. Write a note on Growth hormone. **05**
- (c) Enumerate hormones of Pancreas. Describe the functions of Insulin. **05**
- Q.4** (a) Explain the following in brief: any three **06**
1. Urolithiasis 2. Goitre 3. Alzheimer's disease 4. Botulinism
- (b) Give the causative agent, mode of spread and prophylaxis/treatment for **10**
following : any five
1. Polio 2. Diphtheria 3. Rabies 4. Typhoid 5. Influenza 6. Tetanus
- Q.5** (a) Describe the various methods of Family planning. **06**
- (b) Elucidate the First Aid treatment for Burns and Poisoning. **05**
- (c) Define Health. Explain in brief CPR. **05**
- Q. 6** (a) Outline the functions of Limbic System and Medulla oblongata. **06**
- (b) Write a note on Neurotransmitters. **05**
- (c) Elucidate the physiology of Reflex. **05**
- Q.7** (a) Explain the mechanism and regulation of Respiration. **06**
- (b) Enumerate respiratory disorders. Write a note on Asthma. **05**
- (c) Explain the stages of Menstrual Cycle. **05**
