

Seat No.: _____

Enrolment No. _____

(APHE-1)

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm. Sem-I Examination December 08/January 09

ANATOMY PHYSIOLOGY & HEALTH EDUCATION(210001)

DATE: 17-12-2008, Wednesday TIME: 11.00 am to 2.00 p.m. MAX. MARKS: 80

Instructions:

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

- Q.1** Write short notes on the followings. (Any Four) **16**
- (a) Salivary glands (d) Epithelial tissue
(b) Blood groups (e) Spleen
(c) Histamine
- Q.2** Attempt the followings.
- (a) What is cell cycle? Write a note on it. **06**
(b) What is anemia? Discuss the various anemias in details. **06**
(c) Explain the following terms **04**
- Erythrocyte sedimentation rate
 - Hodgkin's disease
 - Allergy
 - Arthritis
- Q.3** Attempt the followings.
- (a) Define and draw the labeled diagram of neuromuscular junction. **08**
Discuss the physiology of skeletal muscle contraction in detail along its molecular structure.
- (b) What is immunity? Differentiate the active and passive immunity. **06**
(c) Give the names of skull bones **02**
- Q.4** Attempt the followings.
- (a) Classify the joints with example. Write a note on synovial joints with its labeled diagram. **08**
(b) What is hemostasis? Write a note on blood clotting in detail. **08**
- Q.5** Write short notes on the followings (ANY FOUR) **16**
- (a) White blood cells (d) Prostaglandins
(b) Muscular tissue (e) Liver
(c) Protein synthesis
- Q.6** Attempt the followings.
- (a) Discuss the different phases of gastric acid secretion. **06**
(b) What is tissue? Classify them. Write a note on nervous tissue with its labeled diagram **08**
(c) Explain the following terms: (a) Refractory period (b) Fatigue **02**
- Q.7** Attempt the followings.
- (a) Draw the labeled diagram of a cell. Discuss the different transport mechanisms across the cell membrane. **08**
(b) Draw the labeled diagram of digestive system. **04**
(c) Write the note on lymph. **04**