

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 |
| i. Erythrocyte sedimentation rate | |
| ii. Hodgkin's disease | |
| iii. Allergy | |
| iv. Arthritis | |
- Q.3** Attempt the followings.
- | | |
|---|-----------|
| (a) Define and draw the labeled diagram of neuromuscular junction. Discuss the physiology of skeletal muscle contraction in detail along its molecular structure. | 08 |
| (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 |
- _____