

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Pharmacy First Year Remedial Examination September 2009

Subject code: 410005 Subject Name: Human Anatomy & Physiology

Date: 22/09/2009

Time: 10:30am- 1:30pm

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** Answer the following questions
- (a) What is blood coagulation? Describe the mechanism and factors affecting blood coagulation. **08**
 - (b) Give difference between R.B.C and W.B.C **04**
 - (c) Draw and label the internal structure of human heart **04**
- Q.2** Answer the following questions
- (a) Draw and label the structure of nephron. Describe physiology of urine formation **08**
 - (b) Write physiological functions of glucocorticosteroids **04**
 - (c) Write a note on lymph **04**
- Q.3** Answer the following questions
- (a) Enumerate the different parts of the Brain and give the functions of Hind brain. **08**
 - (b) Write the differences between parasympathetic and sympathetic nervous system **04**
 - (c) Draw and label female reproductive system **04**
- Q.4** Answer the following questions
- (a) What is digestion? Discuss the digestion of protein and carbohydrates. **08**
 - (b) Draw and label internal structure of eye ball. **04**
 - (c) Write a note on Mitochondria **04**
- Q.5** Answer the following questions
- (a) Give Classification of joints. Describe various Joint disorders. Write a note on synovial joints. **09**
 - (b) Compare and contrast various muscular tissue **05**
 - (c) Give the names of skull bones **02**
- Q. 6** Answer the following questions
- (a) Explain the mechanism of respiration. Describe the factors responsible for its regulation **07**
 - (b) Explain the physiology of menstruation **05**
 - (c) Write a note on physiology of pain **04**
- Q.7** Write short notes on following (**Any two**) **16**
- (a) Cardiac cycle
 - (b) Hormones of anterior pituitary gland
 - (c) Physiology of hearing
