

**MANIPAL UNIVERSITY****M.Sc. MEDICAL (FINAL) PHYSIOLOGY DEGREE EXAMINATION – FEBRUARY 2010****PAPER I: GENERAL PHYSIOLOGY, NERVOUS SYSTEM INCLUDING  
SPECIAL SENSES AND MUSCLES**

Monday, February 01, 2010

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ Answer ALL the questions.

✍ Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.

1. Discuss in detail various types of feedback mechanisms involved in body function.

(20 marks)

2. Discuss in detail the control of posture and movement.

(20 marks)

3. Describe the role of inner ear in hearing.

(20 marks)

4. Describe

4A. Neuromuscular transmission

4B. Tests of visual acuity

(10+10 = 20 marks)

5. Explain briefly

5A. Phantom limb

5B. Accommodation

(10+10 = 20 marks)



Reg. No.

# MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) PHYSIOLOGY DEGREE EXAMINATION – FEBRUARY 2010

## PAPER II: CARDIOVASCULAR PHYSIOLOGY, RESPIRATORY SYSTEM, RENAL PHYSIOLOGY AND BLOOD

Tuesday, February 02, 2010

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✍ Answer ALL the questions.
- ✍ Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.

1. Explain how the various components of blood are restored to normal after haemorrhage. (20 marks)
2. Describe the determination and factors influencing coronary blood flow. (20 marks)
3. Explain the role of counter current mechanism in kidney. (20 marks)
4. Describe the factors influencing gaseous exchange across the respiratory membrane. (20 marks)
5. Explain how the blood pH is maintained by
  - 5A. Blood buffer system
  - 5B. Respiratory system

(10+10 = 20 marks)



**MANIPAL UNIVERSITY****M.Sc. MEDICAL (FINAL) PHYSIOLOGY DEGREE EXAMINATION – AUGUST 2010  
PAPER III: GASTROINTESTINAL TRACT, ENDOCRINOLOGY AND REPRODUCTION**

Wednesday, August 04, 2010

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever necessary.**

**Health Sciences Library**

1. Compare and contrast the regulation of gastric and pancreatic juice secretion.  
(20 marks)
2. Describe the significance and activity of events taking place along TRH-TSH-Thyroid gland axis and mention various disorders arising in case if this axis fails to perform its function normally.  
(20 marks)
3. Describe in detail the functions of testis. Add a note on difference of the term impotency and sterility.  
(20 marks)
4. Name the hyperglycemic hormones in our body. Explain the actions of one important hypoglycemic hormone and add a note on the effects of decreased secretion of it.  
(20 marks)
5. Briefly describe:
  - 5A. Cushing's disease
  - 5B. Cholecystography
  - 5C. Deglutition
  - 5D. Goiter

(5×4 = 20 marks)

