

SEAT NO: _____

GANPAT UNIVERSITY
B.TECH. 4th SEM. BIOMEDICAL AND INSTRUMENTATION ENGINEERING
REGULAR EXAMINATION MAY/JUNE 2012
2BM404: Human Anatomy and Physiology – II

TIME: 3 Hours

Total marks: 70

INSTRUCTIONS:

1. Use separate answer sheets for the two sections
2. Figures on the right side indicate marks
3. Please explain with the help of diagram wherever it is necessary
4. Each sub-question carries equal marks

SECTION – I

Que.1. Write answers of the following questions. **12**

- A. Write a note on hormonal regulation of tubular reabsorption and tubular secretion.
- B. Explain the functions of liver.

OR

Que.1. Write answers of the following questions. **12**

- A. Write a note on the cells present in bone tissue.
- B. Explain the internal anatomy of kidney.
- C. Explain the properties of muscular tissue.

Que.2. Write answers of the following questions. **11**

- A. Explain the role of bone in calcium homeostasis.
- B. Write a note on digestive enzymes.

OR

Que.2. Write answers of the following questions. **11**

- A. Explain various types of bone.
- B. Explain the histology of stomach.

Que.3. Short notes (any three) **12**

- A. Dialysis
- B. Teeth
- C. Spermatogenesis
- D. Hormones of posterior pituitary gland

SEAT NO: _____

SECTION - II

Que.4. Write answers of the following questions.

12

- A. Describe the general anatomy of nervous system.
- B. Describe synapse. Describe its anatomy.

OR

Que.4. Write answers of the following questions.

12

- A. Name the cranial nerves. Describe the 5th or 7th cranial nerve.
- B. Describe the anatomy of neuromuscular junction and transmission of impulse.

Que.5. Write answers of the following questions.

11

- A. Describe the structure of eye.
- B. Describe the physiology of smell?

OR

Que.5. Write answers of the following questions.

11

- A. Describe the general anatomy of spinal nerves. Write on the brachial plexus.
- B. Define neuron. Describe its structure.

Que.6. Short notes (any three)

12

- A. EEG
- B. Uveal body
- C. Sciatic nerve
- D. Meninges

-----END OF THE PAPER-----