

GANPAT UNIVERSITY
B.TECH. 4th SEM. BIOMEDICAL AND INSTRUMENTATION ENGINEERING
CBCS REGULAR EXAMINATION MAY/JUNE 2014
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

SECTION – I

Que.1 Write answers of the following questions. 12

- A Explain the hormonal and neuronal mechanism to control the glomerular filtration rate.
- B Explain in detail the functions of liver.

OR

Que.1 Write answers of the following questions. 12

- A Write a note on urinary bladder. 4
- B Explain the chemical digestion in small intestine. 8

Que.2 Write answers of the following questions. 11

- A Explain the movements at synovial joint.
- B Write a note on muscle proteins.

OR

Que.2 Write answers of the following questions. 11

- A Explain the structure of long bone.
- B Explain the contraction and relaxation of skeletal muscle.

Que.3 Write short notes 12

- A Nephron
- B Functions of saliva
- C Thorax

SECTION - II

Que.4 Write answers of the following questions. 12

- A Write all you know about cerebellum.
- B Describe the anatomy of neuromuscular junction. How is the impulse transmitted?

OR

Que.4 Write answers of the following questions. 12

- A Describe the internal and external structure of spinal cord.
- B Define sensations. Classify.

Que.5 Define integumentary system. Write about the skin in detail. 11

OR

Que.5 Write answers of the following questions. 11

- A Describe the physiology of smell.
- B Describe the external and middle ear in detail.

Que.6 Write short notes (any three) 12

- A Physiology of sight
- B Brain stem
- C EEG
- D Optic nerve

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