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GIET UNIVERSITY, GUNUPUR - 765022

B. Sc. (Nursing) (First Semester) Regular Examinations, March-2024
ANAT 105 & PHYS 110 - Applied Anatomy & Applied Physiology

Time: 3 hrs

Maximum: 75 Marks

The figures in the right hand margin indicate marks.

Section - A: APPLIED ANATOMY (37 Marks)

PART – A: (Multiple Choice Questions)

(6 x 1 = 6 Marks)

Q. 1 Answer **ALL** questions

- Which of the following is an example of tissue?

(i) Brain	(ii) Blood
(iii) Liver	(iv) Stomach
- The Apical pulse of heart is normally felt at

(i) Left 5th intercostal space	(ii) Left 2nd intercostal space
(iii) Right second intercostal space	(iv) Right 2nd intercostal space
- Which of the following bones is NOT a part of the skull?

(i) Mandible	(ii) Clavicle
(iii) Temporal bone	(iv) Maxilla
- Which of the following gland secrete hormones to maintain normal metabolic rate of the body

(i) Thyroid	(ii) Pancreas
(iii) Adrenal	(iv) Testis
- The main function of the cerebellum is:

(i) Coordination and balance	(ii) Memory and learning
(iii) Sensory perception	(iv) Initiating voluntary movements
- Light rays entering the eye is controlled by

(i) Pupil	(ii) Iris
(iii) Cornea	(iv) Lens

PART – B: (Very Short Answer Questions)

(3 x 2 = 6 Marks)

Q.2. Answer **ANY THREE** questions

- Write very short on Common Bile duct.
- List down organs responsible for urine formation.
- List down the types of synovial joints
- Write down the stages of the menstrual cycle.

PART – C: (Short Answer Questions)

(3 x 5 = 15 Marks)

Q.3. Answer **ANY THREE** questions

- Write the Structural difference between Skeletal, Cardiac, Smooth muscle.
- Where is the thyroid gland located and name the hormones secreted by it.
- Write a short note on the kidney with a labelled diagram.
- Write a short on skin with labelled diagram.

PART – D: (Long Answer Questions)

(10 x 1 = 10 Marks)

Answer **ALL** questions

- | | |
|--------------------------------------|---|
| 4.a. Draw a labeled diagram of cell. | 5 |
| b. Explain its structure in detail. | 5 |

(OR)

- c. Draw a labelled diagram of the human heart. 6
 d. Elaborate its structure. 4

Section - B: APPLIED PHYSIOLOGY (38 Marks)

PART – E: (Multiple Choice Questions)

(7 x 1 = 7 Marks)

Q. 5 Answer ALL questions

- a. Stomach epithelial cells in the body secretes
 (i) Hydrochloric acid (i) Hydrochloric acid
 (iii) Oxytocin (iii) Oxytocin
- b. Which cranial nerve carries sensory information from the airways to cough centre?
 (i) Vagus Nerve (CN X) (ii) Glossopharyngeal Nerve (CN IX)
 (iii) Trigeminal Nerve (CN V) (iv) Accessory Nerve (CN XI)
- c. Which is the structural and the functional unit of the kidney?
 (i) Brain (ii) Nephron
 (iii) Kino cells (iv) Epididymis
- d. A type of proteolytic enzyme is found in infants' gastric juices which helps in the digestion of milk proteins. The name of the enzyme is _____.
 (i) Peptide (ii) Amylase
 (iii) Rennin (iv) None of the above
- e. Respiratory centre is located in?
 (i) Cerebellum (ii) Cerebrum
 (iii) Medulla Oblongata (iv) Pons
- f. Life span of RBC is _____.
 (i) 100 days (ii) 120 days
 (iii) 110 days (iv) 105 days
- g. What should be the blood pressure of healthy human being?
 (i) 120/80 (ii) 110/90
 (iii) 120/100 (iv) 130/90

PART – F: (Very Short Answer Questions)

(3 x 2 = 6 Marks)

Q.6. Answer ANY THREE questions

- a. What are the functions of lymph nodes.
 b. Mention the functions of thalamus.
 c. What do you mean by homeostasis?
 d. Define pulse.

PART – G: (Short Answer Questions)

(3 x 5 = 15 Marks)

Q.7. Answer ANY THREE questions

- a. Write a note on healing and stages.
 b. Mention the functions of skin.
 c. Describe the menstrual cycle.
 d. Discuss about the physiology of muscle contraction.

PART – H: (Long Answer Questions)

(10 x 1 = 10 Marks)

Answer ALL questions

- 8.a. Explain the conduction system of heart and the systolic and diastolic events of cardiac cycle. 10

(OR)

- b. Define GFR and explain the formation of urine. 2+8

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