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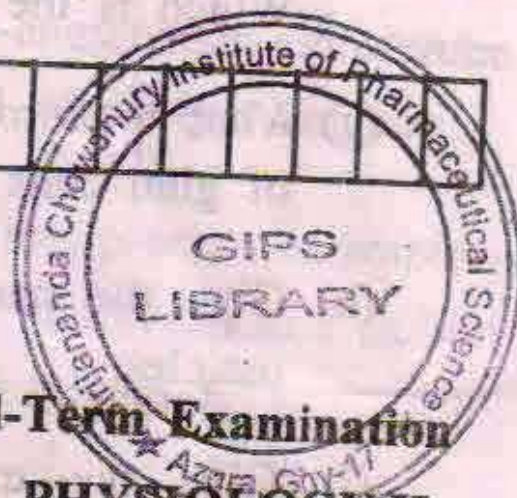
Total No. of printed pages = 4

PY 132201

Roll No. of candidate

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2016



**B. Pharm 2nd Semester End-Term Examination**  
**HUMAN ANATOMY AND PHYSIOLOGY-II**

Full Marks-100 Pass Marks-35 Time-Three hours

The figures in the margin indicate full marks for the questions.

1. Answer any *ten* of the following questions : 3×10=30
- (a) Discuss the factors affecting the oxygen carrying capacity of haemoglobin.
  - (b) Write the function of cholecystokinin and intestinal villai. Which cell secretes HCl ?
  - (c) Define term deglutition, bolus and chyme.
  - (d) What is GFR ? Write about the abnormal constituents of urine.
  - (e) Define vital capacity and how it is measured? Write the composition of alveolar air.

[Turn over

(f) What is Medulla oblongata and brief its role.

Which is the largest cranial nerve ?

(g) What is neuroglia ? Describe different types of glial cells present in CNS and PNS.

(h) Give the name of ear bones or auditory ossicles.

(i) Give the example of thyroid hormone. Describe the role of thyroid and parathyroid gland in maintaining body calcium level.

(j) Define gyri and sulci. What is corpus callosum ?

(k) Define fallopian tube, ectopic pregnancy and HCG.

(l) Write the cause of goiter, Cushing's syndrome and diabetes.

2. Answer any *eight* of the following questions :

5×8=40

(a) Describe the functions of pancreas and salivary gland.

(b) What is spinal cord ? Discuss in brief reflex arch and reflex action.

(c) Define Juxtaglomerular apparatus. Describe the role of rennin-angiotensin-aldosterone system of water and electrolyte balance.

(d) Describe the mechanical process of respiration and the process of oxygen and carbon dioxide gas transport system.

(e) Describe the structure and functions of skin with a proper diagram.

(f) Describe in brief the structures of its different parts of brain.

(g) What is meninges ? Describe composition and functions of CSF.

(h) What is autonomic nervous system ? Discuss the role and functions of sympathetic and parasympathetic nervous system.

(i) Describe the mechanism of neurohumoral transmission in ANS.

(j) What is spermatogenesis ? Describe the process of spermatogenesis.

3. Answer any *three* of the following questions :  
10×3=30

(a) Describe the different parts of eye and physiology of vision with a labeled diagram. 10

(b) Describe different parts of nephron and physiology of formation of urine. Add a note on composition of urine. 8+2=10

(c) Write a note on physiological role of different hormones secreted by pituitary gland and adrenal gland. Describe the different stages of menstruation cycle. 5+5=10

(d) Describe different gastrointestinal secretions and their role in digestion of food. Describe the functions of different types of cranial nerves. 6+4=10

