

**NKT/KS/17/6548****B.Pharm (Second Semester) (C.B.S.) Examination****HUMAN ANATOMY AND PHYSIOLOGY—II****Paper—3**

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) Question No. **1** is compulsory.(2) Solve any **four** questions from the remaining.

(3) Draw neat labeled diagram wherever necessary.

1. Solve any **five** from Q. No. **1** :

(a) Discuss the role of pH during digestion in G.I. tract.

(b) Explain the role of chylomicrons in fat absorption.

(c) Discuss the physiological role of vagus and glossopharyngeal nerves.

(d) Briefly discuss the importance of renin.

(e) Explain the mechanism of colour identification in vision.

(f) Write functions of saliva.

(g) Discuss the physiological importance of extra pyramidal system.

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2. (a) Draw a well labelled diagram of nephron and explain the importance of juxta-medullary and cortical nephrons. 5

(b) Discuss in detail the process of urine formation. 10

3. Discuss the role of HPA axis and mention all of the hormones secreted by anterior and posterior pituitary gland along with their physiological importance. 15

4. (a) Explain the generation of action potential in neuron and nerve transmission. 5

(b) Discuss in detail with their physiological importance of motor pathways. 10

5. Explain the structure and function of pancreas and liver with the help of suitable diagram. Comment on the secretion of liver and pancreas in digestion. 15

6. (a) Draw a well-labelled diagram of ear and explain their functions. 7

(b) Draw a well-labelled diagram of spinal cord and explain the role of dorsal and ventral horn. 8

7. Draw well labelled diagram of skin and describe its various functions. 15

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