

1. Describe cellular mechanism of gastric acid and secretion. (10%)
2. Describe general characteristics of neurotransmission at chemical snapses. (10%)
3. What is “ G protein ” ? (10%)
4. Describe regulation of adrenocorticotropic hormone. (10%)
5. Describe the physiological functions of kidneys. (10%)
6. Explain the follow terms. (20%)
 - A. Bainbridge reflex
 - B. Bezold-Jarisch reflex
 - C. Babinski sign
 - D. Bartter’s syndrome
 - E. Addison’s disease
 - F. Bell-Magendie law
 - G. Bernoulli’s principle
 - H. Fick principle
 - I. Starling’s law
 - J. Toll-like receptors
7. Discuss the following:
 - A. The causes of orthostatic hypotension. (10%)
 - B. The mechanism of body temperature control. (10%)
 - C. The receptors and pathways involved in nociception. (10%)