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Total Number of Pages: 02

B.PHARM
15PH203**2nd Semester Regular Examination 2015-16****HUMAN ANATOMY & PHYSIOLOGY-II****BRANCH: Pharmacy****Time: 3 Hours****Max Marks: 100****Q.CODE: W477**

Answer Part-A which is compulsory and any four from Part-B.
The figures in the right hand margin indicate marks.

Part – A (Answer all the questions)**Q1** Answer the following questions: **(2 x 10)**

- a) Gastrin secretion is stimulated by _____ and inhibited by _____.
- b) In the lung alveoli $P_A\text{CO}_2$ is about _____ mmHg and diffusibility of CO_2 is _____ (higher/lower) than O_2 .
- c) GFR per day in young healthy adult is about _____ litres and daily urine output is _____ litres.
- d) Normally colloidal osmotic tension in the glomerular capillary is about _____ mmHg and the effective filtration pressure is about _____.
- e) Rhodopsin is made up of a combination of _____ & _____.
- f) The neurotransmitter released at the postganglionic sympathetic nerve ending is _____ and parasympathetic nerve ending is _____.
- g) GnRH stimulates the secretion of _____ & _____.
- h) Insulin _____ gluconeogenesis and _____ lipolysis.
(Inhibits/promotes).
- i) ADH in human being is _____.
- j) A myelinated nerve fibre conducts nerve impulse _____ than non-myelinated nerve fibre. (faster/slower)

Q2 Answer the following questions: **Short answer type** **(2 x 10)**

- a) Name the hormones released from adrenal cortex.
- b) What is chloride shift?
- c) Define tidal volume.
- d) What is peptic ulcer?

- e) Define diabetes mellitus.
- f) What is Myxedema?
- g) Name any two excitatory neurotransmitters released in CNS.
- h) Define digestion.
- i) What is colour blindness?
- j) Define action potential?

Part – B (Answer any four questions)

- Q3** a) Describe the anatomy & physiology of liver. Add a note on its function. **(10)**
b) Write about the location and functions of different types of taste buds. **(5)**
- Q4** a) Explain briefly about the mechanism of respiration. **(10)**
b) Write a note on voice box. **(5)**
- Q5** a) Write in detail about the physiology of urine formation. **(10)**
b) Describe EEG with the nature of its waves. **(5)**
- Q6** a) Enumerate in detail about the steps involved in the neurohumoral transmission in parasympathetic nervous system. **(10)**
b) Write a note on reflex arc. **(5)**
- Q7** a) Write in detail about the physiology of menstruation. **(10)**
b) Write a note on spermatogenesis. **(5)**
- Q8** a) Briefly enumerate about the physiology of hearing. **(10)**
b) Name the hormones released from thyroid glands along with their functions. **(5)**
- Q9** a) Describe about the structure and functions of spinal cord. **(10)**
b) Draw a neat labeled diagram of human eye. **(5)**