UG Even Semester (CBCS) Exam., May—2017

PHARMACEUTICAL SCIENCES

(2nd Semester)

Course No. : BPH–201 (C)

(Human Anatomy and Physiology—II)

Full Marks : 75
Pass Marks : 30

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. *(a)* Explain the gross anatomy of gastro-intestinal system and explain the function of stomach. 10

(b) Write a note on digestion of carbohydrate. 5

2. *(a)* What are different respiratory muscles? Explain the mechanism of breathing. 2+8=10

(b) Write a note on respiratory centres. 5

UNIT—II

3. *(a)* What are different functional areas of cerebral cortex? Write the name and function of different sensory areas of cerebral cortex. 10

(b) Write a note on reflex action. 5

4. *(a)* Write the mechanism of neurohumoral transmission in the ANS. 10

(b) Explain the basic functional difference between sympathetic and parasympathetic nervous system. 5

UNIT—III

5. *(a)* Describe the structures and mechanism of urine formation. 12

(b) Write a note on diseases of the urinary system. 3

6. *(a)* Describe the structure of female reproductive system. 7

(b) Explain the physiology of menstruation. 8

UNIT—IV

7. *(a)* "Pituitary is called the master endocrine gland." Justify the statement. 12

(b) Write the consequences of hypopituitarism. 3

8. *(a)* What are sex hormones? Write the role of androgens. 1+9=10

(b) Write the function of mineralocorticoids. 5

UNIT—V

9. *(a)* Write the mechanism of optics in visual sensation. 8

(b) Write the structure and functioning of receptor cell of visual sensation. 7

10. *(a)* Explain the structure of ear and write the function of each part of the ear. 12

(b) Write a note on taste bud. 3

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