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Roll No. ....

B. Sc.(Biotech.)-II Year

# NS-3470

B. Sc. (Biotechnology) Examination, May 2016

## ANIMAL PHYSIOLOGY

(B-207)

(New)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt any five questions. All questions carry equal marks.

1. What is the chemical composition of blood? Describe the process of blood clotting in detail. 10
2. Explain 'Chloride shift'. How CO<sub>2</sub> is transported during the process of respiration? 10
3. Draw a well labelled diagram of mammalian nephron. Describe in detail the various steps of urine formation in mammals. 10

(2)

4. What is digestion? Describe in detail the digestion and absorption of carbohydrates, lipids and proteins in different parts of alimentary canal. 10
5. Describe the structure of pituitary gland. Give an account of various hormones secreted from the pituitary gland. 10
6. Draw a well labelled diagram of mammalian nerve cell. Explain in detail the mechanism of propagation of nerve impulse along a nerve fibre. 10
7. Draw a well labelled diagram of female reproductive system of human. Give an account of the process of Oogenesis. 10
8. Describe the process of fertilization in mammals. 10
9. Write notes on the following : 5+5=10
  - (a) Homeostasis
  - (b) Vaccines.
10. What is immunity? Describe in detail the mechanism of antigen-antibody interaction. 10

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