

S.NO: 243

BATCH: 2012-14, 16, 17

END OF SEMESTER EXAMINATIONS, APRIL/MAY - 2018  
 ZOOLOGY PAPER-II  
 GENERAL PRINCIPLES OF ZOOLOGY  
 SUBJECT CODE: 16UBZO02

16

MAJOR : B.Sc (BOTANY)  
 TIME : 3 HOURS

SEMESTER : II  
 MAX. MARKS : 75

**SECTION - A ( 10 X 1 = 10)****Answer ALL questions:**

1. What is the difference between apolar and unipolar neuron?
2. What is Tetanus?
3. What is cleavage?
4. What is Amnion?
5. Define immunity
6. What are Tonsils?
7. Which endocrine gland is called master gland?
8. What is PTH?
9. Define mutation.
10. State use and disuse theory.

**SECTION - B ( 5 X 4 = 20)****Answer ALL questions.**

11. a) With a neat diagram explain the structure of a neuron.  
(OR)  
b) Give an account of ultrastructure of a muscle fibre.
12. a) Give an account of types of vertebrate eggs.  
(OR)  
b) Write notes on blastulation in frog.
13. a) Explain briefly about passive immunity.  
(OR)  
b) Give an account of lymph node.
14. a) Explain the structure of pituitary gland and list out the hormones secreted by pituitary gland.  
(OR)  
b) Explain the role of Insulin.
15. a) Give the account of the principle of inheritance of acquired characters.  
(OR)  
b) Explain the mutation theory of Devries.

**SECTION - C ( 5 X 9 = 45)****Answer ALL questions**

16. a) Describe the mechanism of nerve impulse conduction along the nerve fibre.  
(OR)  
b) Describe the theories of muscle contraction.
17. a) Describe the various steps in the gastrulation of frog.  
(OR)  
b) Write an essay on placentation in mammals.
18. a) Describe the various phenomena of innate immunity.  
(OR)  
b) Explain the bone marrow as a primary lymphoid organ.
19. a) Describe the structure and functions of thyroid gland.  
(OR)  
b) Describe the role of hormones of Adrenal gland.
20. a) Explain Neo-Lamarckism in detail.  
(OR)  
b) Write an essay on Darwinism.

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