Exam. Code : 211201

Subject Code: 3869

## M.Sc. Zoology 1st Semester

### FUNCTIONAL ORGANIZATIONS OF ANIMALS-I

#### Paper—ZOOC-501

Time Allowed—Three Hours] [Maximum Marks—100

Note:—The candidates are required to attempt

ONE question each from Sections A, B, C and
D carrying 20 marks each. The Fifth question
may be attempted from any section.

#### SECTION—A

I. Describe the process of digestion and absorption of carbohydrates and fat in mammalian alimentary canal.

20

II. Explain the mechanism of digestion in invertebrates with special reference to crustaceans and molluscs.

20

#### SECTION—B

III. Give an account of evolution of heart in vertebrates.

20

IV. Differentiate between myogenic and neurogenic heart.Explain conduction of heart beat in mammals. 20

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(Contd.)

# SECTION—C

V. Give an account of respiratory organs in fishes. 20 VI. Describe the evolution of Müllerian ducts in chordates.

20

### SECTION—D

VII. Give an account of physiological anatomy of mammalian kidney along with suitable diagram. 20VIII. Discuss salinity adaptations in marine invertebrates and vertebrates.