



HCM-003-001534

B. Sc. (Sem. V) (CBCS) Examination

October - 2017

Zoology : Z-502

(Applied Zoology Wild Life & Bio-Technology)

(New Course)

Faculty Code : 003

Subject Code : 001534

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) Illustrate your answers with neat and labelled diagrams.
- (2) Figures to the right indicate full marks of the question.
- (3) All questions are Compulsory.

- 1** Give the answer of following short questions : **20**
- (1) Which bacteria is responsible for Dropsy?
 - (2) The first fish pond was built by _____ .
 - (3) In fish which vitamin is used for calcium and phosphorus metabolism?
 - (4) What is Red data book?
 - (5) Poultry manure is very useful to which crop?
 - (6) Which trace elements is essential for fish growth?
 - (7) Which fish by-product used for chocolate industries?
 - (8) Silk thread is stuck by which gummy substance in silk worm?

- (9) Give a scientific name of common carp.
- (10) What is the scientific name of brinjal shoot?
- (11) Danchigam national park is located in which state of India?
- (13) Define: Sericulture.
- (13) Name the crustacean which is responsible for fish louse.
- (14) Name the animal which is very rare to spot in marine national park.
- (15) Give full form of WWF.
- (16) Give the name of Chemical factor affecting fish farm.
- (17) What is Ichthyology?
- (18) Which glands is responsible for induce breeding?
- (19) Full form of EPC.
- (20) Which substance is obtained from De-acetylation in prawn and squilla as a fish by-product?

2 (A) Write any three out of **six** :

6

- (1) Wild Life Protection Act 1972
- (2) Symptoms and treatment of fungal disease
- (3) CITES
- (4) What is wild life conservation?
- (5) Ising glass
- (6) Define inland fisheries

(B) Write any three out of **six** : **9**

- (1) Physical factors affecting on fish pond.
- (2) Organisms are used in biotechnology.
- (3) Fish disease caused by bacteria.
- (4) Kaziranga national park.
- (5) Rearing of silkworm.
- (6) Any three fish by-products.

(C) Write any two out of **five** : **10**

- (1) History of aquaculture.
- (2) Induce breeding.
- (3) Life cycle of silkworm.
- (4) Fish ponds.
- (5) Role of publicity and education in wild life.

3 (A) Write any three out of **six** : **6**

- (1) WWF
- (2) Formulated fish food.
- (3) Causes of wild life depletion.
- (4) Importance of biotechnology
- (5) Differences between national park and sanctuary
- (6) Damages and treatment of brinjal shoot borer.

(B) Write any three out of **six** : **9**

- (1) Gill rot.
- (2) Mango stem borer.
- (3) Poultry by-product.
- (4) Fish disease caused by crustacean.
- (5) Jim Corbett national park.
- (6) Write a note on essential minerals in fish food.

(C) Write any two out of **five** : **10**

- (1) Post harvesting techniques in fish.
 - (2) Biotechnology in pharmaceutical industries.
 - (3) Marine national park and Kanha national park.
 - (4) Poultry products.
 - (5) Chemical factors affecting on fish farm.
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