



PAQ-003-001534

Seat No. _____

B. Sc. (Sem. V) Examination

October / November - 2018

Zoology : Z-502

**(Applied Zoology, Wild Life, Biotechnology)
(Old 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 diagram.
(2) Figures to the right side indicate full marks of question.

- 1 Give the answers 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 is 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?
 - (12) 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 gland 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) 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.

- 3** (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.
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