



HA-003-001534

Seat No. _____

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

May / June – 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 answer with neat and labelled diagrams.
(2) Figure to the right side indicates full marks of questions.

1 Answer the following questions : 20

- (1) What is ichthyology?
- (2) Which micro-organism is caused for white spots diseases in fish?
- (3) Give the name of zooplanktons which are used as a live food in aquaculture.
- (4) What is stifling in sericulture?
- (5) Which is the largest sanctuary in Gujarat? Give area of this sanctuary.
- (6) Give the full form of CITIES.
- (7) Give the size of nursery pond in inland fisheries.
- (8) Which micro-organism is widely used in production of alcoholic beverages?
- (9) Give the name of host plants of pieris brassicae.
- (10) From which fishes we can obtain good fin rays.

- (11) Give a definition of bio-technology.
- (12) Give reasons for spoilage of fish in post harvesting.
- (13) Which group of micro-organism are used in antibiotic production?
- (14) Write the name of products of poultry farms.
- (15) Give the location and prime species of Dachigam National Park.
- (16) Give the list of member of IBWL.
- (17) Give the chemical control against *Leucinodes Orbonalis*.
- (18) How much dose of Ovaprime is given male and female of major carp during induced breeding?
- (19) Which fishes are cultured in Egypt?
- (20) Join A with B.

A	B
(i) Mulberry silk worm	(a) <i>Attacus riciuii</i>
(ii) Tasar silk worm	(b) <i>Anthera assama</i>
(iii) Muga silk worm	(c) <i>Bombyx Mori</i>
(iv) Eri silk worm	(d) <i>Anthera Phaphia</i>

- 2** (a) Write any **three** out of six : **6**
- (1) Advantages of formulated food in aquaculture.
 - (2) Describe: Storage and exciting pond.
 - (3) Write short note on WWF.
 - (4) Symptoms and treatment against Dropsy.
 - (5) Canning type fish preservation method.
 - (6) Post cocoon process in Sericulture.

- (b) Write any **three** out of six: **9**
- (1) Damage and control of mango hoppers.
 - (2) Vaccine and antibiotics as gift of bio-technology.
 - (3) Fish glue and Fish meal as fish by product.
 - (4) Jim-Corbet National park.
 - (5) History of Aquaculture according to China.
 - (6) Physical factor affecting in fish farm.
- (c) Write any **two** out of Five : **10**
- (1) Induced breeding in inland fisheries.
 - (2) Bio-technology in pharmaceutical industries.
 - (3) Cabbage butterfly.
 - (4) Reasons for the depletion of Wildlife and Wildlife Protection Act 1972.
 - (5) Construction of fish farm.
- 3** (a) Write any **three** out of six : **6**
- (1) Symptoms and treatment of Costiasis.
 - (2) IBWL aims and achievement.
 - (3) Nursery and hatching pond.
 - (4) Micro-organism used in biogas production.
 - (5) Location, area and Fauna of Gir National Park.
 - (6) Damage and control of mango stem borer.
- (b) Write any **three** out of six : **9**
- (1) Water mould (Fungus) diseases in fish.
 - (2) Brinjal fruit and shoot borer.
 - (3) Fish oil as by product.
 - (4) Scope of bio-technology.
 - (5) Major and minor products from poultry farm.
 - (6) Role of environmental education and publicity in conservation.

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

- (1) Role of bio-technology in medicine field.
 - (2) Fish preservation methods by using lower temperature.
 - (3) Complete life cycle of Bombyx Mori.
 - (4) Nutrition in fish diet.
 - (5) Kaziranga and Marine National Park of Gujarat.
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