



BCG-003-1015018 Seat No. \_\_\_\_\_

**B. Sc. (Sem. V) (CBCS) (W.E.F. 2016) Examination**

**August – 2021**

**Zoology**

*(Old Course)*

**Faculty Code : 003**

**Subject Code : 1015018**

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

[Total Marks : 70

- Instructions :** (1) Illustrate your answers with neat and labeled diagrams.  
(2) Figures to the right side indicate full marks of.

**1 (a) Give answer of following question. (4)**

1. Define inland fisheries
2. Brooding pond is use for \_\_\_\_\_.
3. Write use of fish leather.
4. Costiasis disease in fish is also known as a \_\_\_\_\_.

**(b) Write answer in short. (2)**

1. Write note on fish by product (any one)

**(c) Write answer for following question. (3)**

1. Discuss causes, symptoms and treatment of White spot disease

**(d) Write answer for following question (5)**

1. Give description of Salting and drying type of post harvesting techniques

**2 (a) Give answer of following question. (4)**

1. What is aquaculture?
2. Write a name of post harvesting technic
3. Give a name of organism which causes a dropsy disease
4. What is chemical preservation?

**(b) Write answer for following question. (2)**

1. Make note on carbohydrate as a nutrient in fish

**(c) Write answer for following question. (3)**

1. Explain fish meal

**(d) Write answer for following question. (5)**

1. Discuss causes, symptoms and treatment of dropsy fish disease

**3 (a) Give answer of following question. (4)**

1. Define sericulture
2. What is the color of honey bee's eggs?
3. Machana is used for \_\_\_\_\_ in sericulture.
4. Silk worm belongs to which phylum?

**(b) Give answer of following question (2)**

1. Write a note on economic importance of honey bee

**(c) Give answer of following question (3)**

1. Describe various products of apiculture

**(d) Give answer of following question (5)**

1. Discuss in detail life cycle of Honey Bee

**4 (a) Give answer of following question. (4)**

1. Write a name of product of apiculture.
2. What is cocoon?
3. A full grown 5<sup>th</sup> instar caterpillar of silk worm has \_\_\_\_\_ segmented body.
4. Honey bee belongs to which class?

**(b) Give answer of following question (2)**

1. Write a note on economic importance of silk

**(c) Give answer of following question (3)**

1. Write note on management of sericulture

**(d) Give answer of following question (5)**

1. Write a note on apiculture methods.

**5 (a) Give answer of following question. (4)**

1. What is in-situ conservation?
2. Define keystone species.
3. Write a full name of WWF.
4. Manas wild life sanctuary is located at \_\_\_\_\_.

**(b) Write any one out of two (2)**

1. Write a note on difference between National park and Sanctuary

**(c) Give answer of following question. (3)**

1. Write a location and fauna of Dachigam Sanctuary

**(d) Give answer of following question. (5)**

1. Discuss Ranthambhore national park in detailed

**6 (a) Give answer of following question. (4)**

1. Write a full name of CITES
2. What is endemic species?
3. Write a location of Ranthambhore National park
4. Keoladeo national park is also known as a \_\_\_\_\_ sanctuary .

**(b) Give answer of following question. (2)**

1. Write a short note WWF

- (C) Give answer of following question. (3)**  
 1. Describe types of keystone species
- (d) Give answer of following question. (5)**  
 1. Discuss J Kaziranga national park in detailed
- 7 (a) Give answer of following question. (4)**  
 1. What is cloning?  
 2. \_\_\_\_\_ is also known as molecular scissors  
 3. Write full name of BAC vector.  
 4. What is Biotechnology?
- (b) Give answer of following question (2)**  
 1. Write a note on branches of biotechnology.
- (C) Give answer of following question (3)**  
 1. Explain Gene cloning
- (d) Give answer of following question (5)**  
 1. Discuss Restriction enzyme
- 8 (a) Give answer of following question. (4)**  
 1. The first Type II enzyme isolated was \_\_\_\_\_.  
 2. In YAC vector we can insert \_\_\_\_\_ length of DNA  
 3. Write name of cloning types  
 4. Define Exonucleases
- (b) Give answer of following question (2)**  
 1. Write a note on introduction of biotechnology
- (C) Give answer of following question (3)**  
 1. Discuss any two as a vector
- (d) Give answer of following question (5)**  
 1. Discuss types of cloning
- 9(a) Give answer of following question (4)**  
 1. Define toxicology  
 2. Write major pathway by which toxic agents gain access to body.  
 3. The oral chelating agent \_\_\_\_\_ is used for treatment of lead toxicity.  
 4. Write the classification of toxic agents on basis on their biochemical mechanism of action.
- (b) Write any one out of two (2)**  
 1. Brief note on dental fluorosis
- (c) Write any one out of two (3)**  
 1. Give account of absorption of toxicant by lungs
- (d) Write any one out of two (5)**  
 1. Describe characteristic of exposure of Arsenic toxicity.
- 10(a) Give answer of following question (4)**  
 1. Define toxicants  
 2. Inorganic Arsenic is \_\_\_ % absorbed by GI Track.  
 3. The oral \_\_\_\_\_ or \_\_\_\_\_ is effective to remove arsenic to the body.  
 4. Write a function of toxicologist

- (b) Give answer of following question (2)
1. Describe classification of toxicant
- (c) Give answer of following question (3)
- 1 Explain skeletal fluorosis
- (d) Give answer of following question (5)
- 1 Give account of absorption of toxicant by skin
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