



**DCK-003-2016023**

Seat No. \_\_\_\_\_

**B. Sc. (Sem. VI) Examination**

**July - 2022**

**Zoology : Z-603**

**(Reproduction, Embryo Development, Bio. Evolution Etc.)**

**Faculty Code : 003**

**Subject Code : 2016023**

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

[Total Marks : 70

- 1 (a) Give answer of following question : 4
- (1) The embryo has developed both cranial and cervical flexures in \_\_\_\_\_ Hrs.
  - (2) What is Letebra?
  - (3) What is Henson's node?
  - (4) Name the parts of tail in mammalian sperm.
- (b) Write any one out of two : 2
- (1) Give significance of Primitive streak.
  - (2) Draw a labelled diagram of mammalian sperm.
- (c) Write any one out of two : 3
- (1) Give structure of mammalian ovum.
  - (2) Make a note on gastrulation of chick embryo.
- (d) Write any one out of two : 5
- (1) Explain in detail 33-hour chick embryo.
  - (2) Give description of structure of mammary gland.
- 2 (a) Give answer of following question : 4
- (1) Define placenta.
  - (2) What is artificial parthenogenesis?
  - (3) In which animals the concentric implantation is seen ?
  - (4) What is Morphallaxis regeneration?

- (b) Write any one out of two : 2
- (1) Make a note on histological types of placenta (Any 2).
  - (2) Describe regeneration in Planaria.
- (c) Write any one out of two : 3
- (1) Make a note on significance of parthenogenesis
  - (2) Describe Epimorphic regeneration.
- (d) Write any one out of two : 5
- (1) Discuss type of placenta according to shape and Distribution of villi.
  - (2) Explain Natural parthenogenesis.
- 3** (a) Give answer of following question : 4
- (1) Explain the term hot spot biodiversity.
  - (2) Write a full name of WWF.
  - (3) Write a name of mammalian endemic species of India.
  - (4) Jim Corbett national park is famous for Conserving \_\_\_\_\_ animal.
- (b) Write any one out of two : 2
- (1) Make a note on Indian board of Wild life.
  - (2) Write only location and fauna of Periyar national park.
- (c) Write any one out of two : 3
- (1) Explain In situ Conservation.
  - (2) Describe Endangered species with example.
- (d) Write any one out of two : 5
- (1) Explain key stone species.
  - (2) Discuss Dachigam Sanctuary.

- 4 (a) Give answer of following question : 4
- (1) Make a list of water pollutants.
  - (2) Which enzyme is involved in nitrogen fixation?
  - (3) Give full name of CFC.
  - (4) Make a list of factor affecting population growth rate.
- (b) Write any one out of two : 2
- (1) Make a note on population density
  - (2) Explain Erosion and its effect.
- (c) Write any one out of two : 3
- (1) Write a note on green house effect.
  - (2) Explain O<sub>2</sub> cycle.
- (d) Write any one out of two : 5
- (1) Explain age Pyramids.
  - (2) AIR pollution
- 5 (a) Give answer of following question : 4
- (1) \_\_\_\_\_ era is also known as age of mammal.
  - (2) Who is the father of Zoogeographic.?
  - (3) India is included in \_\_\_\_\_ region.
  - (4) Define evolution
- (b) Write any one out of two : 2
- (1) Brief note on Mesozoic era
  - (2) Brief note on microevolution
- (c) Write any one out of two : 3
- (1) Explain java man
  - (2) Describe Ethiopian region.
- (d) Write any one out of two : 5
- (1) Describe Modern man.
  - (2) Describe macroevolution.