

U.G. 5th Semester Examination - 2020**ZOOLOGY****[PROGRAMME]****Discipline Specific Elective (DSE)****Course Code : ZOOL-G-DSE-T-01&02**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***Answer all the questions from selected Option.****OPTION-A****ZOOL-G-DSE-T-01**

1. Answer any **five** questions: 2×5=10
- What is osmoregulation?
 - What is hatchery?
 - Name any two natural fish food organisms.
 - Define plankton and mention any two zooplanktonic forms.
 - What are cage culture and pen culture?
 - Write the importance of swim-bladder in fishes.
 - Write the scientific name of any two fishes that has an electric organ.

2. Answer any **two** questions: 5×2=10
- Write an essay on parasitic diseases in fish.
 - Describe the Marine fisheries in the Bay of Bengal.
 - What is polyculture? Describe composite fish culture practices in India.
 - Write the uses of fish bi-product.
3. Answer any **two** questions: 10×2=20
- Describe crafts and gear that are used in fishing. 10
 - Differentiate between intensive and extensive management systems of fish culture. Describe the procedure of induced breeding in fish. 5+5=10
 - Classify fishes up to subclasses. Describe different types of scales that are found in fishes. 4+6=10
 - Define Transgenic organisms. Write the names of two transgenic fish. What are the advantages and disadvantages of transgenic fishes? 2+2+3+3=10

OPTION-B
ZOOL-G-DSE-T-02

1. Answer any **five** questions : 2×5=10
- a) What are natality and mortality?
 - b) What is meant by 'Cover' in the management of wildlife habitats?
 - c) Define *ex-situ* conservation with example.
 - d) What do you mean by carrying capacity?
 - e) What is population?
 - f) Name four tiger reserves in India.
 - g) What is habitat?
 - h) Name two National Parks and two Wildlife Sanctuaries in India.
2. Answer any **two** questions: 5×2=10
- a) Why conservation of wildlife is important?
 - b) What is global positioning system (GIS)? Give an account of remote sensing in wildlife status estimation. 1+4
 - c) How the fecal indices are used to monitor the nutritional status in wild ungulates?
 - d) Describe the methods involved in restoration of degraded habitats.
3. Answer any **two** questions: 10×2=20
- a) What do you mean by eco-tourism? Describe the importance of eco-tourism in India. Discuss any

two major eco-tourism destinations in India.

1+5+4

- b) Why does human-wildlife conflict occur? Describe the consequences of human-wildlife conflicts with examples. 4+6
- c) Describe in brief the Pugmark census method. How Pugmark tracings are accomplished? 5+5
- d) What are the major challenges encountered in Tiger reserves? Explain the importance of topography in habitat analysis. What are the main reasons of depletion of wildlife in India?

3+5+2

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