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**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES**

**B.Sc. (Special) Degree in Applied Biology
Fourth Year Semester I Examination – October/November 2017**

ZOO 4305– FISHERY RESOURCES MANAGEMENT

Time: Three (03) hours

Answer any six (06) of the following questions.

1. Describe,
 - a) major issues that are constraining the development of the fisheries sector in Sri Lanka. (60 marks)
 - b) steps of participation level in fishery co-management practices. (40 marks)
2. Discuss briefly the various forms of catch management strategies in fisheries. (100 marks)
3. Describe the different physical and chemical factors that would affect the fish yield. (100 marks)
4. a) State the advantages of culture based fisheries over other conventional forms of aquaculture. (40 marks)
b) Discuss briefly the physical and biological aspects of water bodies that should be considered when selecting a water body for culture based fisheries (60 marks)
5. Explain the following;
 - a) key management problems leading to over-fishing, (50 marks)
 - b) different types of discards generated in fisheries. (50 marks)

6. a) Describe briefly the effect of fishing on nutrient levels and food web structure in aquatic ecosystems.

(65 marks)

- b) Write a concise account on the advantages and limitations of fishery co-management.

(35 marks)

7. Write short notes on the following.

- a) Characteristics that are unique to fisheries.

(30 marks)

- b) Ecological criteria considered in sustainable development of fisheries.

(35 marks)

- c) Effects of pollution on fishing and fishery products.

(35 marks)

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