

UNIVERSITY OF RUHUNA

BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE

Level IV - Semester I - Examination, September 2018

FAQ 4123 – Fish Pathology and Parasitology

Time – 02 hours

Answer any four (04) questions

1. Briefly discuss any three (3) of the following
 - a) Columnaris disease in fish
 - b) Adaptive immunity system in fish
 - c) Functions of phagocytes
 - d) Stress and the General Adaptation Syndrome
 - e) The Inflammatory Response

2.
 - (a) Define the term disease diagnosis
 - (b) List out diagnostic tools used in fish disease diagnosis
 - (c) Explain any two techniques for Immunological Diagnosis

3.
 - (a) List five common viral diseases of shrimps
 - (b) A commercial shrimp farmer observed lethargic behavior, surface inhabitation and yellow heads among shrimps in his ponds. He is expecting the support from a pathologist to analyze the situation. As a pathologist how would you proceed the investigations based on the shrimp farmer's observations?

4. Write short accounts on the following
 - a). Organismal associations
 - b). Clinical signs of ectoparasitic diseases
 - c). Factors to be considered when treating fish with external treatments

5. Summarize the ways in which pathogen pathway to fish/fish farm could be intercepted

6.
 - (a). Describe the methods adopted for application of external treatments to fish are affected by diseases
 - (b). Summarize husbandry factors contributing to outbreaks of diseases in fish farms

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