

UNIVERSITY OF RUHUNA
Bachelor of Science in Fisheries & Marine Sciences Degree Examination
Level II - Semester II, Dec. 2016/Jan. 2017

FAQ 2223 – Fish Population Dynamics

Time: 02 hours

Answer only Four (04) questions

1. “Morphometric and meristic characteristics can be used in fish stock assessment”
Discuss.
2. Explain the importance of length-weight relationship in fish population dynamics
3. Write brief essays on
 - (a) Hard part analysis for age determination
 - (b) Fecundity of fish
4. “Peterson method is an approach for estimating growth parameters of tropical fish stocks”. Justify.
5. Write short accounts on **any four** of the following,
 - (a) Age-structured models
 - (b) Condition factor
 - (c) Mortality
 - (d) Factors affecting growth of fish
 - (e) Hauling ratio of gillnet
 - (f) Selectivity of fish traps
6. (a) What is meant by gear selectivity? Explain its importance in fish stock assessment.
(b) Write an account on the determination of trawl net selectivity using covered cod end method

@@@@@@@@@@