題號： 82
科目： 水產資源學
節次： 6

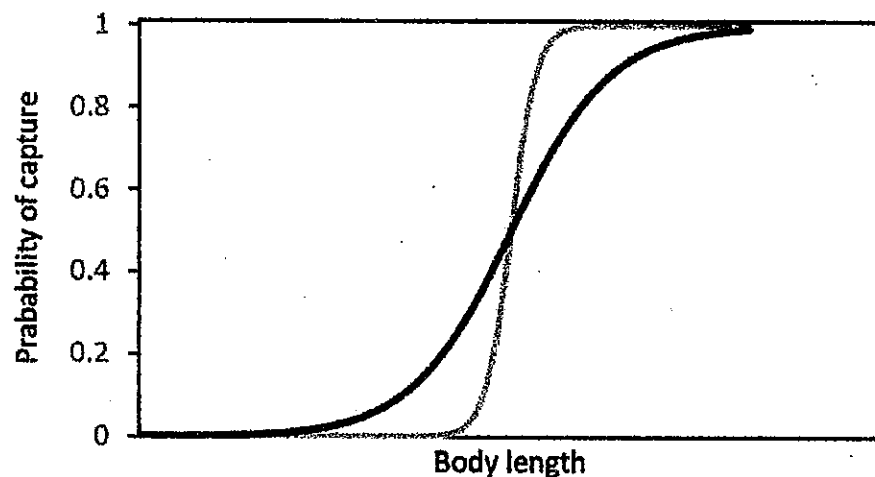國立臺灣大學 112 學年度碩士班招生考試試題

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共 2 頁之第 1 頁

一、解釋名詞（每題 3 分，共 30 分）

1. Spillover

2. Yield-per-recruit

3. Trophic cascade

4. Target reference point

5. Limit reference point

6. Catchability

7. Age-length Key

8. Recruitment overfishing

9. Growth overfishing

10. MSY

二、問答題（共 70 分）

1. The selectivity of fishing gear in relation to a particular species is often examined by means of the below graph that relates the probability of capture to the body size. Please answer the following questions. (1) (10 分) What kind of fishing gear do these curves typically represent? (2) (10 分) Which selection curve represents the selection for a species with irregular body shape and smooth body shape, respectively? (3) (10 分) Which curve that the minimum mesh size regulation does not work efficiently?

2. The reliable estimation of the age and growth of a fish stock is an important aspect in resource management in order to maintain a sustainable fishery. (1) (10 分) How to conduct an age and growth study? (2) (10 分) What information could be obtained from an age and growth study to derive scientific advice for fishery resource management?

見背面

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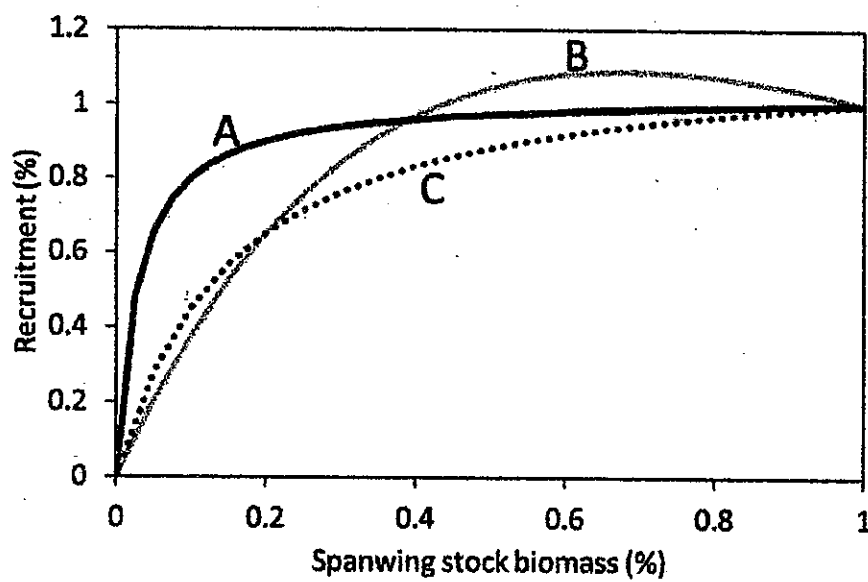
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3. The plot shows the spawning stock biomass and recruitment relationships. Please explain the following questions. (1) (10 分) Which curve represents for shark, cod, and shrimp, respectively? (2) (10 分) Which curve represents a higher resilience of recruitment failure under a heavy fishing intensity?

試題隨卷繳回