

UNIVERSITY OF RUHUNA

FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

Academic Year 2022/2023

Bachelor of Science Honours in Fisheries and Marine Sciences Degree

Level III Semester I Examinations – April/May 2024

FSH 3121: Fishing Gear & Craft Technology

Time: 1 hour 15 minutes

Answer any two (02) Questions only.

01.

- a) Illustrate the energy generating and transferring process of the engine in a fishing vessel using a flow diagram.

(10 marks)

- b) Differentiate the followings.

- I) Carvel built and clinker built
- II) Shallow and deep-water chumming
- III) Lower and upper stroke of a two-stroke engine
- IV) Beam trawl and otter trawl
- V) Trolling line and long line

(20 marks)

- c) Summarize the structure, operational procedure, target species and different types of gill net, trammel net, cast net and seine net using an appropriate table.

(20 marks)

02.

- a) Classify the fishing vessels according to;

- I) Various types and shapes of sterns
- II) Number of chines
- III) Types of Keels

(15 marks)

- b) Compare different craft building materials with respect to their characteristics.

(35 marks)

03. Write short notes on any **four (04)** of the following.

- a) Four stroke engines
- b) Factors to be considered when designing a fishing gear
- c) Spears and Harpoons
- d) Fish Aggregating Devices (FADs)
- e) Environmental impacts of bottom trawls and dredges

(50 marks)

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FSH 3131: F

1. Using the warming industry

2. "Behavior biology

3. Either

(i) D
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(ii)