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UNIVERSITY OF GHANA
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B.SC. FIRST SEMESTER EXAMINATIONS: 2020/2021

DEPARTMENT OF MARINE AND FISHERIES SCIENCES

FISH201: INTRODUCTION TO FISHERIES SCIENCE (2 CREDITS)

INSTRUCTION:

**ANSWER ALL QUESTIONS (SECTIONS A AND B) IN THE SPACES
PROVIDED.**

(Illustrate your answers with well-labelled diagrams where necessary)

TIME ALLOWED: TWO AND HALF (2½) HOURS

SECTION A (4 marks each)

1. List **two (2)** physical and **two (2)** chemical characteristics of the environment that are monitored by Fisheries Scientists to support decision making.

- i.
.....
.....
- ii.
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2. State any **four (4)** fisheries associations in Ghana.

i.

.....

ii.

.....

iii.

.....

iv.

.....

3. State **four (4)** habitats of fish.

i.

ii.

iii.

iv.

4. Calculate the catch rate in kg/min in an experimental fishing that lasted 1 hr 30 min and yielded 30 tonnes of fish. Show how you arrived at your answer.

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5. List **four (4)** feeding strategies in fish.

- i.
-
- ii.
-
- iii.
-
- iv.
-

6. List **four (4)** traditional methods used by fishermen in locating the presence of fish in waterbodies for subsequent capture.

- i.
- ii.
- iii.
- iv.

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7. List **four (4)** importance of colouration in fishes.

- i.
.....
- ii.
.....
- iii.
.....
- iv.
.....

8. List **four (4)** importance of fish to man.

- i.
.....
- ii.
.....
- iii.
.....
- iv.
.....

9. State **four (4)** reasons why we need to know the **scientific names** of exploited fish.

- i.
.....

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ii.

.....

iii.

.....

iv.

.....

10. List four (4) subject disciplines in Fisheries Science.

i.

ii.

iii.

iv.

11. With reference to Ghanaian waters, give both the **common** and **scientific** names of one each of:

a) Freshwater fin-fish:

.....

.....

b) Demersal fin-fish:

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c) Elasmobranch:

.....
.....

d) Small pelagic fin-fish:

.....
.....

12. List **four (4)** reproductive strategies of fish.

- i.
- ii.
- iii.
- iv.

13. List **four (4)** fishing jobs in local communities in West Africa.

- i.
- ii.
- iii.
- iv.

14. List four (4) major challenges facing global fisheries.

- i.
.....

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- ii.
.....
- iii.
.....
- iv.
.....

15. Give two (2) examples each of:

a) Active fishing gear

- i.
- ii.

b) Passive fishing gear

- i.
- ii.

EXAMINER: PROF. F.K.E. NUNOO

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SECTION B

16. State **four (4)** reasons why fish is processed.

(4 marks)

i.

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ii.

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iii.

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iv.

.....

17. State, with example, four (4) categories of fisheries in the world.

(4 marks)

i.

.....

ii.

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iii.

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iv.

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18. Provide the classification of any known fish from **KINGDOM** to **SPECIES** level.

(4 marks)

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19. Give a brief history of the fishing industry in Ghana.

(6 marks)

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20. Explain four (4) qualities of fish as a natural resource.

(4 marks)

- i.
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- ii.
-
- iii.
-
- iv.
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21. Explain four (4) ways by which poverty can be alleviated in small-scale fishing communities in West Africa.

(4 marks)

- i.
.....
- ii.
.....
- iii.
.....
- iv.
.....

22. List any eight (8) top marine fish producer countries in the world.

4 marks)

- i.
- ii.
- iii.
- iv.
- v.
- vi.
- vii.
- viii.

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23. Describe any four (4) of the assets in small-scale fishing communities. **(6 marks)**

i.

.....

ii.

.....

iii.

.....

iv.

.....

24. Briefly describe four (4) indicators of the overfishing problem in the world.

(4 marks)

i.

.....

ii.

.....

iii.

.....

iv.

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