



UNIVERSITY OF RUHUNA
FACULTY OF FISHERIES AND MARINE SCIENCES &
TECHNOLOGY

Academic Year 2023/2024

Bachelor of Science Honours in Fisheries and Marine Sciences Degree
Bachelor of Science Honours in Marine and Freshwater Sciences Degree

Level III Semester II Examination – October / November 2024

FDN 3211

Advanced English II

Time: 3 hours

Index No:

Answer all the questions on this paper itself.

For Examiners' Use Only				
Question No:		Maximum Marks	Marks obtained	1 st Examiner
Part –A	1	05		
Part –B	1	10		
	2	15		
	3	10		
Part –C	1	05		
	2	15		
	3	10		
Part –D	1	10		
	2	20		
Total		100		

Signature of the first examiner

Signature of the second examiner

Part – A (Written Oral)
Question – 01

Read the conversation below. Fill in the blanks with the correct expressions by writing the most appropriate number (1-5) in the brackets. There is one extra expression.

Expressions	Relevant Number
(a). Right. That's good to know. I've only just moved here so I don't have any of those sorts of contacts.	(.....)
(b) And we could arrange for your curtains to get cleaned if necessary.	(.....)
(c) No, I don't have any, but the floor would need cleaning.	(.....)
(d) Actually, I hardly ever use that, but can you do the fridge?	(.....)
(e) That's fine. And we could also clean your microwave if you want.	(.....)
(f) Could you postpone the cleaning until April?	(.....)

Janaki: Hello, Abaan's Cleaning Services, Janaki speaking.

Client: Oh hello. I'm looking for a cleaning service for my apartment – do you do domestic cleaning?

Janaki: Sure.

Client: Well, it's just a one-bedroom flat. Do you have a basic cleaning package?

Janaki: Yes. For a one-bedroom flat we're probably looking at about two hours for a clean. So, we'd do a thorough clean of all surfaces in each room, and polish them where necessary. Does your apartment have carpets?

Client: (1).....

Janaki: Of course – we'd do that in every room. And we'd do a thorough clean of the kitchen and bathroom.

Client: OK.

Janaki: Then we have some additional services which you can request if you want – so for example, we can clean your oven for you every week.

Client: (2).....

Janaki: Sure. Would you like that done every week?

client: Yes, definitely. And would ironing clothes be an additional service you can do?

Janaki: Yes, of course.

Client: It wouldn't be much, just my shirts for work each week.

Janaki: (3).....

Client: No, I wipe that out pretty regularly so there's no need for that.

Janaki: We also offer additional services that you might want a bit less often, say every month. So for example, if the inside of your windows need cleaning, we could do that.

Client: Yes, that'd be good. I'm on the fifteenth floor, so the outside gets done regularly by specialists, but the inside does get a bit grubby.

Janaki (4)

Client: No, they're OK. But would you be able to do something about the balcony? It's quite small and I don't use it much, but it could do with a wash every month or so.

Janaki: Yes, we can get the pressure washer onto that. Now if you're interested, we do offer some other possibilities to do with general maintenance. For example, if you have a problem with water and you need a plumber in a hurry, we can put you in touch with a reliable one who can come out straightaway. And the same thing if you need an electrician.

Client: (5).....

Marks Allotted	1 st Examiner	2 nd Examiner
05		

Part – B (Grammar)

Question – 01

Complete the blanks with the proper forms of the words within brackets.

. In 1538, the (1)(publish)
of a world map showed North and South America as separate continents for the first time. The
man who (2)(product)
this important map was called Gerardus Mercator. Mercator spent his (3)
.....(young) in Flanders, where he became known as an (4)
.....(extreme)

talented map-maker. Besides teaching mathematics to the students at the University of Louvain,
he also earned extra money making (5)(science)

instruments.

In 1544, he was briefly imprisoned for his religious beliefs and, fearing for his family's (6)(safe) ,he went to live in the Rhineland, where he remained for the rest of his life. Mercator's youngest son Rumold became his father's (7)(represent)after his death in 1594, supervising the (8) (appear) of the first complete (9)..... (edit) of the Mercator world atlas the following year. Although Mercator constantly updated his maps with new information, some were wrong because the earth is round. As maps are flat, it is virtually (10) (possible) to show the right scale, area and direction on one map.

Marks Allotted	1 st Examiner	2 nd Examiner
10		

Question – 02

Fill in the blanks with the correct forms of the verbs given within brackets.

(A)

- When, I(write) my assignment last evening between 4.00 pm and 6.00 pm, I(get) a call.
- They(finish) their work, so, they can go home, now. But, their friendsstill.....(do) their work.
- She.....(work) in the day-shift, everyday. Next week, she.....(do) the night-shift.
- They(follow) this degree course before we..... (start) it last year.
- She(be) to India four times. Now, she..... (be) in Sri Lanka.

[05 marks]

(B)

- A new president.....(elect) six weeks ago.

- New cabi
- Our lectu
- We cann
- The car

Question – 0
Combine the

- Renu
- The
- The
- Th
- E
- T

- b. New cabinet members.....(appoint) by next December.
- c. Our lectures.....(cancel) today. So we are free now,
- d. We cannot drive along the beach road, the road(repair) at the moment.
- e. The car.....(service); you can drive it comfortably now.

[10 marks]

Marks Allotted	1 st Examiner	2 nd Examiner
15		

Question – 03

Combine the sentences with the words given within brackets. Follow the example.

- a) Renuka works for a company. It makes computer software.[*which*]

Renuka works for a company **which** makes computer software.

- b) The train travels to Colombo. It runs every half hour. [*that*]

.....

- c) The policeman stopped our car on the way. He was polite and friendly. [*who*]

.....

- d) The film is about a girl. She migrated to France. [*who*]

.....

- e) Everything happened. It was my fault. [*that*]

.....

- f) The machine broke down. It is working now. [*which*]

.....

Marks Allotted	1 st Examiner	2 nd Examiner
10		

Part – C (Reading)
Question – 01

Choose only ONE word from the text given below and complete the summary.

Water occupies a very common place in our lives and is considered to be a typical liquid. So much so that the search for extraterrestrial life begins with a search for water. In reality, water is one of the most unusual liquids you will ever encounter. We know that life on earth depends on the unique properties of water. As a gas, water is one of the lightest gases known; it is much denser than its solid form as a liquid.

A common observation seen in the behaviour of the substances is that they expand when heated as the density decreases and vice versa when the material is cooled. This is how substances generally react to heat. But, water behaves differently when heated.

The general tendency of cold water remains unchanged until 4° C. The density of water gradually increases as you cool it. When you reach 4° C, its density reaches a maximum. What water does next will astound you. When you cool it further to make some ice, i.e. 0° C, water expands.

[177 words]

Summary

Life begins with(1).....anywhere in the universe.it is the most unusual liquid so it is one of the(2).....gases and much denser than its solid state. Other materials expand when heated. The reason for this is that its density (3)..... But, when heated water behaves differently. Water stays unchanged until 4° C. Thereafter, its (4).....increases. When cooled further, water (5).....

[62 words]

Marks Allotted	1 st Examiner	2 nd Examiner
05		

Question – 02
Read the follow
Chemistry is the
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for genetic expr
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increasingly
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prever

Question – 02

Read the following text and answer the questions.

Chemistry is the foundation of all life. Living organisms utilize chemistry for multiple purposes. Obvious examples include lipids utilizing chemistry for cell structure, DNA utilizing chemistry for genetic expression, and proteins utilizing chemistry for cell function and communication. The processes of chemical synthesis and degradation in living systems are termed metabolism, and, invariably, these processes are under enzymatic control. A well-defined set of biosynthetic pathways is used by all organisms for the production of chemicals that are essential for the well-being and survival of the organism. Such chemicals are collectively known as primary metabolites and include lipids, DNA, and proteins. For many years now, chemists have isolated and characterized a diverse range of natural products from both terrestrial and marine organisms. The reason for the presence of such compounds in the organisms was not immediately apparent. It was obvious, however, that these compounds did not resemble the more classical primary metabolites, and they were therefore termed secondary metabolites or natural products. It is becoming increasingly apparent that this terminology is deceptive. Important functions, including ecological roles are being attributed to secondary metabolites. Indeed, natural products may contribute as much as primary metabolites to the survival of the producing organism.

Theories abound as to why secondary metabolites are produced by marine organisms. Early theories suggested that such natural products represented chemical “ballast,” waste or products of primary metabolic overflow. However, increasing evidence that many marine natural products play fundamental roles in ecology suggests a more premeditated scenario. In an authoritative account of the theories pertaining to secondary metabolite production, Williams et al. concluded “natural products have evolved under the pressure of natural selection to bind to specific receptors,” and therefore represent ecological responses of organisms to their environment. Marine organisms are under intense competitive pressure for space, light, and nutrients especially in such populous locations as tropical reefs. Thus, it is not surprising that these organisms have developed a range of defense mechanisms including behavioral (e.g., cryptic, nocturnal), physical (e.g., sclerites, tough external surfaces), and chemical strategies to ensure survival. Reputed ecological roles for marine natural products include anti-predation, mediation of spatial competition, prevention of fouling, facilitation of reproduction, and protection from ultraviolet radiation. Most

studies to date have attempted to assess the more easily quantified feeding deterrence effects of purified compounds. The design, interpretation, and ecological relevance of such experiments, however, have recently come under close scrutiny. Although difficult to implement, calls for a holistic approach to marine chemical ecology should not be ignored, as marine natural products do not act in isolation from one another or from physical defenses. For example, testing for synergy between chemical and physical defenses has only recently been addressed in any meaningful manner.

Marine Chemical Ecology - James B. McClintock & Bill J. Baker

Answer these questions.

A. State whether the following statements are 'True' or 'False'. Write 'T' for true statements and 'F' for false statement in the cages provided.

- (a) DNA determines the genetic appearance. ☐
- (b) Enzymatic control causes the processes of chemical synthesis and degradation. ☐
- (c) A diverse range of natural products comes from terrestrial and marine beings. ☐
- (d) Marine natural products play basic dysfunctional forms in ecology. ☐
- (e) The densely populated coral reefs provide no space, light, and nutrients for marine beings ☐

[5 Marks]

B. Answer the following questions in NO MORE THAN FIVE words.

- a) What is the name of the processes of chemical synthesis and degradation in living systems?
.....
- b) Where have chemists isolated and characterized a diverse range of natural products?
.....
- c) What helps the primary metabolites for the survival of the producing organism?
.....

d) What do th
.....

e) What hav
Give two
.....

C. Find the

- 1. importa
- 2. basic
- 3. proof
- 4. descrip
- 5. scope

Question -

Fill in the b
complete th

- | |
|-------------|
| (a) correct |
| (b) less to |
| (c) evalua |
| (d) Morph |
| (e) head i |
| (f) decrea |

Biology and

Natural b

As a fish

(1).....

- d) What do the marine organisms constantly compete for?

- e) What have they recently and closely examined in relation to some experiments?
 Give two of them.

[05 Marks]

C. Find the similar words for the words given below.

1. important
2. basic
3. proof
4. description
5. scope

[5 Marks]

Marks Allotted	1 st Examiner	2 nd Examiner
15		

Question – 03

Fill in the blanks by writing the most appropriate number (1-5) next to the phrases to complete the text. There is an extra phrase.

(a) correct data in genetic evaluations for valid	(.....)
(b) less tolerance of low dissolved oxygen than	(.....)
(c) evaluate low oxygen tolerance	(.....)
(d) Morphological measurements need to	(.....)
(e) head in a young catfish	(.....)
(f) decrease oxygen level	(.....)

Biology and Physiology

Natural biological and physiological processes can also be responsible for environmental effects.

As a fish grows, its gill surface to body volume ratio becomes smaller. Usually, larger fish have

(1).....smaller fish. In a genetic evaluation, a smaller fish has an

Part – D (Writing)

Question – 01

Describe the f

Month	Number of deep-sea litter items
January	110
February	20
March	40
April	60
May	80
June	100
July	110
August	100
September	80
October	60
November	40
December	20

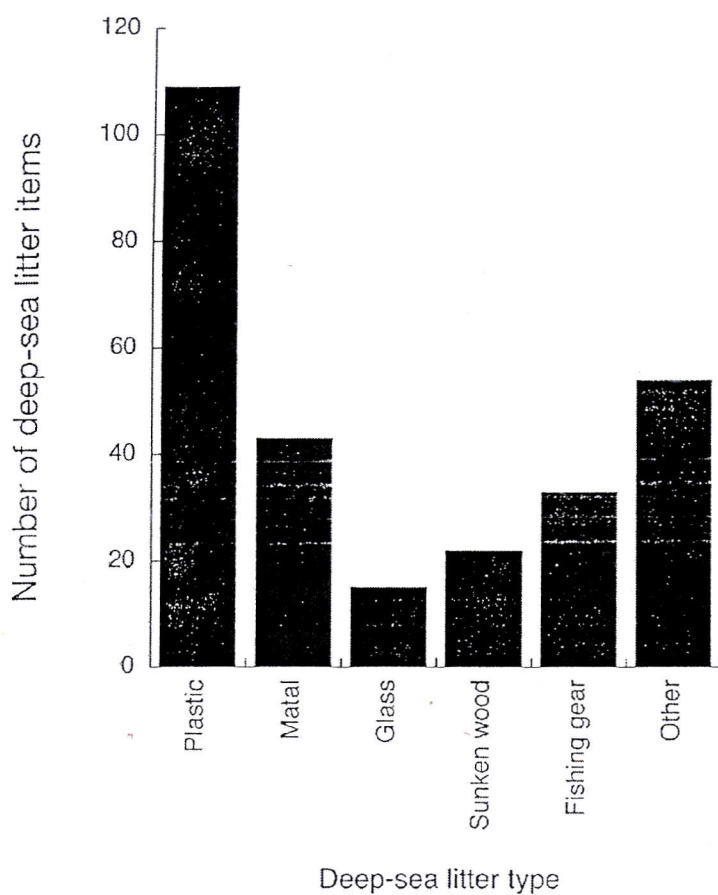
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Marks Allotted	1 st Examiner	2 nd Examiner
10		

Part – D (Writing)

Question – 01

Describe the following bar chart in 150-180 words. [Deep sea litter in metric tons]



.....

.....

.....

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.....5

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.....

Question – 02

Write an investigative report on 'Coastal Conservation' following the specified guidelines. Present the report under the following sub-headings within the prescribed word limit of 220-250 words.

- a) Introduction - Why coastal conservation is important.
- b) Findings
 - Erosion
 - Corrosion
 - Abrasion
 - hydraulic action
- c) Recommendations
 - building
 - Seawalls
 - Breakwaters
 - Dune restoration
 - Living shorelines
 - Jetties

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.....45

Marks Allotted		1 st Examiner	2 nd Examiner
C	08		
L	08		
O	04		
Total	20		