

Name: _____

Class: _____

Teacher: _____

Menai High School



Oceans Alive

Year 9 Yearly Examination 2007

Instructions to Students:

1. Read all questions carefully.
2. Write your name, class and teacher's name in the spaces above and on the next page.
3. Write answers to multiple choice questions in the grid below and all other answers in the spaces provided.
4. Do not remove the Multiple Choice Answer Sheet from the Exam Booklet.
5. Time allowed: 40 minutes

Part A - Multiple Choice Answers

Circle or shade in the letter of the correct answer.

1

A	B	C	D
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6

A	B	C	D
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2

A	B	C	D
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7

A	B	C	D
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3

A	B	C	D
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8

A	B	C	D
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4

A	B	C	D
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9

A	B	C	D
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5

A	B	C	D
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10

A	B	C	D
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Part A Multiple Choice Questions

1. When snorkelling, it is not essential to have a:
 - A. snorkel and mask
 - B. fins and snorkel
 - C. wetsuit and weightbelt
 - D. fins and mask

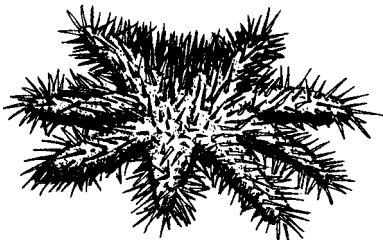
2. When snorkelling you should achieve neutral buoyancy by:
 - A. treading water while wearing fins
 - B. wearing a thick, full length wetsuit and floating on your back
 - C. wearing enough weight on a weightbelt to ensure you sink slowly below the surface
 - D. wearing just enough weight on your weightbelt to balance the flotation provided by your wetsuit.

3. Marine creatures have adaptations to ensure they:
 - A. catch prey for food
 - B. avoid being caught by predators
 - C. are able to reproduce
 - D. all of the above

4. A feature possessed by all echinoderms is:
 - A. tube feet
 - B. tentacles with sucking discs
 - C. no feet but soft bodies inside shells
 - D. tentacles with stinging cells

5. Crustaceans from the sea include -
 - A. shrimp, lobster, squid and barnacles
 - B. lobster, crab, turtle and oysters
 - C. crab, lobster, starfish and sea urchins
 - D. prawns, lobsters, crabs and crayfish

6.



The creature shown above belongs to a group of marine organisms called:

- A. gastropods
- B. echinoderms
- C. cephalopods
- D. cnidarians

7. Marine pests are organisms that:
- A. are really annoying to swimmers and snorkellers
 - B. harm or negatively affect the lives of organisms in local ecosystems
 - C. take the bait off fishermen's lines
 - D. become tangled in the nets of professional fishermen
8. Marine tourists operations may be established in areas which:
- A. provide access to humans to observe unique marine creatures. e.g. Great White Sharks
 - B. have a fine climate, warm, clear water and areas of natural beauty
 - C. provide water conditions suitable for fishing, sailing or other recreational activities.
 - D. all of the above
9. Marine tourism:
- A. often assists in the protection of marine environments
 - B. is always damaging to marine environments
 - C. never results in permanent employment for people
 - D. plays no part in educating people about the marine environment
10. When people make decisions about where to holiday they usually consider:
- A. cost and distance to travel only
 - B. weather, activities available, cost, distance to travel and type of accommodation
 - C. weather, natural features and type of accommodation only
 - D. type of marine creatures they will see only

Part B Free Response Questions

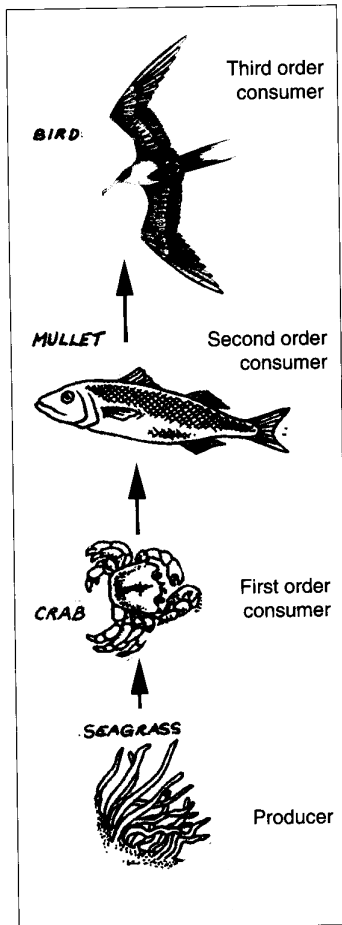
11. Study the picture below and answer the questions that follow.



- a) Identify a structural adaptation of this creature and explain how it assists it to survive. 2
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-

- a) By looking at all the features of this creature, predict a behavioural adaptation and explain how this would help it to survive. 2
-
-

12. Study the picture below and answer the questions that follow.



- a) What does the diagram show? 1

- b) Explain the meaning of the arrows by referring to an example in the diagram. 2

- c) Identify two possible effects on the ecosystem if the population of mullet was destroyed by an introduced parasite. 2

- d) Explain the function of producer organisms in an ecosystem. 1

13. Identify three adaptations of an octopus and explain how each assists its survival. 6

14. a) Explain the difference between *commensalism* and *mutualism* when describing relationships between organisms. Include an example of each in your explanation. **4**

b) Describe the roles of the clownfish and the anemone in their relationship. **2**

15. a) Explain two ways in which marine pests may be introduced into a local ecosystem. **2**

b) Give one explanation why there is a greater threat of marine pests in modern times than there was in the past, **1**

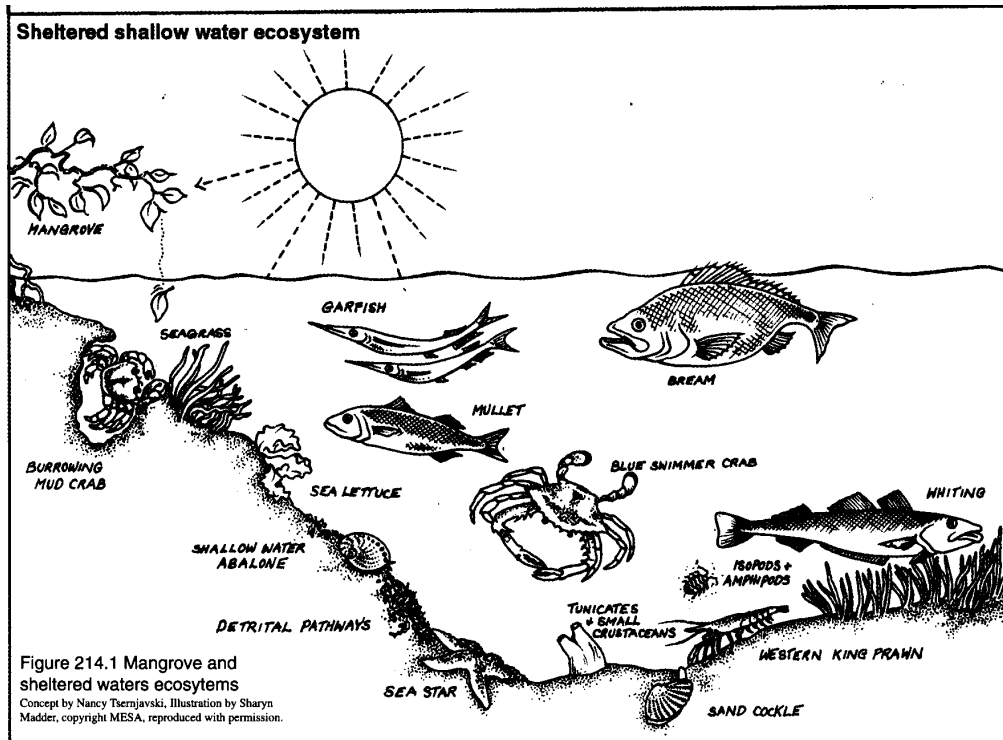
16. List 3 reasons why a snorkeller might choose to wear a wetsuit. **3**

17. Describe a method of clearing water from your snorkel after surfacing. **1**

18. Identify two reasons why you should always dive or snorkel with a “buddy”

2

19. Use the diagram below to answer the following questions.



a) From the diagram identify:

5

i) a crustacean

ii) an echinoderm

iii) a mollusc

iv) a vertebrate

v) a producer organism

b) Describe one way in which human activity could damage or destroy this marine ecosystem.

2

