

L.N Coakley High School
Science Department
Mangrove Ecosystem Worksheet Grade 10

Name : _____ Date: _____

Instruction: Answer ALL questions.

SECTION A: MULTIPLE CHOICE QUESTIONS

Select the letter of that matches your answer.

1. The diagram shows a black mangrove plant.



Which statement describes the purpose of the structures labeled X?

- A. They allow oxygen to diffuse into the roots.
- B. They form new plants.
- C. They help to anchor the plant in the mud.
- D. They help to remove excess salt from the water

2. What is a good reason for conserving mangrove swamp?

- A. They allow the sea easy access to the land
- B. They form habitats for Bahamian boa
- C. They form habitats for juvenile fish
- D. They grow at a very slow rate.

3. The diagram shows a red mangrove plant. How are the roots adapted to living in the mangrove swamp?



- A. They absorb oxygen from the mud
- B. They allow germination to take place
- C. Extract oxygen from the air
- D. Stabilize the plant in the mud

4. Which structures identifies the black mangroves plant?

- A. Pneumatophores
- B. Prop roots
- C. Salt glands
- D. Shiny leaves

5. Which is the scientific name of the Red Mangrove?

- A. *Homo sapiens*
- B. *Rhizophora mangle*
- C. *Strombus gigas*
- D. *Zea mays*

SECTION B: STRUCTURED QUESTION

1. The mangrove ecosystem has four zones.

- a. (i) Which type of mangrove plant grows farthest away from high tide?

- b. (ii) Which type of mangrove has prop roots?

- c. (iii) State ONE significance of prop roots to one type of mangrove plant.

d. Which term best describes the root system of the black mangrove.

e. State one difference between the white mangrove and the red mangrove plant.

f. Torpedo-like plantlets are found in which mangrove?

g. State one function of the salt glands present in mangrove plants.

h. (i) List two threats to the mangroves.

(ii) Explain how each threat negatively affect the mangroves.

2. Mangroves swamps provide a habitat for juvenile fish and crustaceans. Name two types of crustaceans that live in the mangrove swamp.

i. Mangroves are important in filtering pollutants. State three other reasons why mangroves are important.

j. Briefly describe the physical conditions of a mangrove ecosystem.
