

NAME: _____**SIGNATURE:**.....**SANJOAC****2024 CONTINUOUS ASSESSMENT TEST III****SENIOR THREE****Physics Theory.****Time: 1 hour**

- ✓ *The paper consists of one item only, attempt all the parts.*
- ✓ *Present only precise and concise **physics** ideas.*
- ✓ *Use of relevant diagrams is an added advantage.*

Scenario

Jane and Rose went on a fish pond to catch some fish. Near the pond, was a mango tree. On the surface of the water there was some mango leaves floating. The pond attendant assured the girls that they could not be able to catch any fish that day till a specialist come and removes a piece of metal that got stuck inside the pond, he suspects this metal to have scared the fish.

The girls were shocked and stood so close to each other. Jane picked 5 circular stones and threw them in the pond one at a time, a distance so close to them to prove if the fish could show any sign of being present, she observed the leaves jumping up and down but not moving away from their positions but Rose was unable to see them, she felt scared. After few seconds she saw marry shivering as she was observing plane waves fronts coming to their side from the other far end of the pond but Jane could not see anything. The girls felt so confused.

Tasks:

As a student of physics if you were on the pond;

1. Explain Jane's observation.
2. Identify the problem with the eyes of the girls, explain the cause and how the girls can have their problems solved.
3. With a reason and an illustration, help the pond attend know the shape of the metal in the pond so that he sends a clear message to the specialist.

The academic catalyst wishes you success.

END