GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.
FORM 1 PHYSICS END OF TERM 3 EXAMINATION. 2014.

1.Draw a well labeled diagram of a vacuum flask. (5mks

2. Explain how heat loss in a thermos Flask through conduction, convection and radiation is minimized. (6mks

3. Why are ventilations in a room put near the ceiling and not near the floor. (2mks

4. Explain why petrol tanks are painted bright. (2mks

5. Explain why flames of fire go upwards. (2mks

6. Explain the green house effect and how it affects the growth of a plant. (3mks

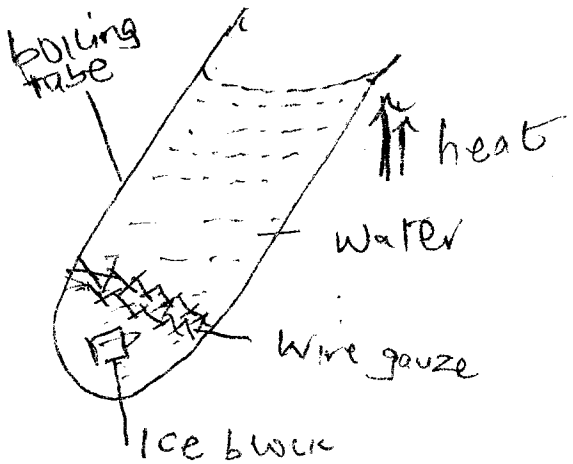
7. Differentiate between land breeze and sea breeze. (6mks

8. State the factors that affect conductivity of a solid. (4mks

9. State 4 properties of a good thermometric liquid. (4mks

10. In a liquid in a glass thermometer state how accuracy and sensitivity can be improved. (2mks

11. In an experiment to investigate conductivity of a liquid, the following set up was used.



a)Explain what happens when the water near the mouth is heated. (2mks

b) What is the purpose of the wire gauze in this experiments. (2mks

c) Explain any change if the glass tube was replaced with a metal tube. (2mks

d) Explain what would happen if salt was added into water. (2mks

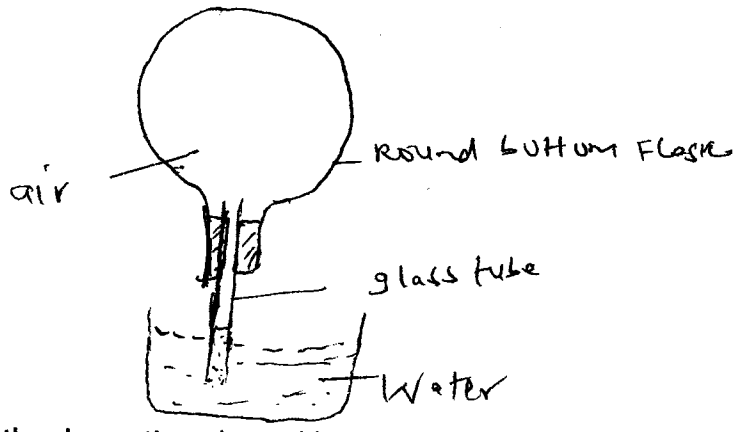
12. Convert the following from °C to kelvin.

a) 25°C (3mks

b) 100°C

c) 0°C

13. In an experiment to investigate expansion in gases, the set up below was used.



i) Explain the observation when cold water is sprinkled around the round bottom flask. (2mks

ii) What happens when the flask is slightly warmed. (1mk