GATITU DAY MIXED SEC SCHOOL TIME: 1 ¼ HRS

TERM 2 2012 C.A.T 1

PHYSICS FORM II

1. State and draw the three types of light beams (3mks)

2. What do you understand by the term ‘magnification’ (2mks)

3. Define the following terms (3mks)

 a. Principal focus

 b.Center of curvature

 c. Focal length

4. The water level in a burette is 30cm3, if 55 drops of water full from the burette and the average volume of one drop is 0.12cm3. What is the final water level in the burette (4mks)

5. State the two laws of reflection (2mks)

6. C A B

i.Name the rays (5mks)

a------------------------

b------------------------

c -----------------------------

ii.Name the angles X -----------------

 Y ---------------------

7. Draw a vernier calipers scale showing (4mks)

 a. 5.37 cm

 b. 0.66 cm

8. Distinguish between scalar and vector quantity and in each case give one example (4mks)

9. A wooden block is 8 m long 12 m wide and 9m high , calculate the maximum and the minimum pressure that can be exerted by the block if it has a mass of 64.8kg (3mk

10. A body was weighed on the earth’s surface and its weight found to be 600 N, what will its weight be on the surface of a planet where g =7.5N/kg (Take g on earth surface = 10N /kg) (3mks)

11. Draw the magnetic field lines between the two magnets shown

12. Write the following in standard form (1mk)

 3

 0.0002198

13. An object is 30 cm from a concave mirror of focal length 20 cm

 Calculate a. Image position

 b. the magnification