GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.
FORM 2 PHYSICS. MID – TERM EXAMINATION. TERM 1 2015.

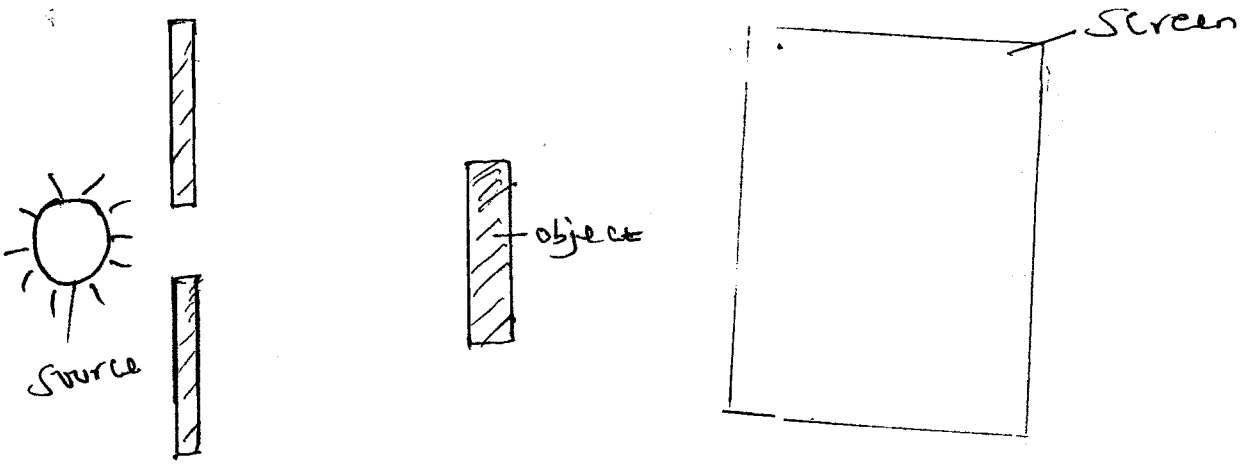
1.State 3 uses of light. (3mks

2. Describe experiments that can be conducted to demonstrate rectilinear propagation of light. (3mks

3(i) What is a shadow? (1mk

ii) State three things that determine the type of shadow formed. (3mks

4. The set up below was used to investigate the type of a shadow formed from an extended source of light. Using a ray diagram. Draw the shadow formed and label the parts. (5MKS)



5. Using clearly labeled diagrams, distinguish between solar and lunar eclipse. (6mks

6. State the characteristics of an image formed by a pinhole camera. (2mks

7. What is the effect of increasing the site of a pinhole on the image formed in a pinhole camera. (2mks

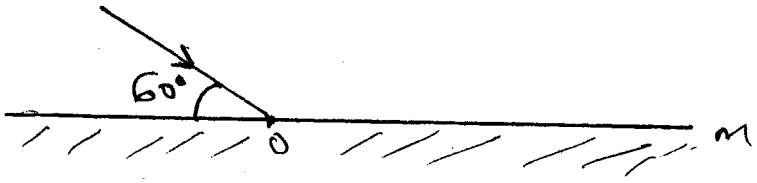
8. State the effect of decreasing the length a pin hole camera on the image formed. (2mks

9. An object of heights 10m is placed 20m away from the pinhole. If the image size is 5cm.
Calculate (a) Magnification (2mks

b)Length of the pinhole camera. (2mks

10. State the laws of reflection. (2mks

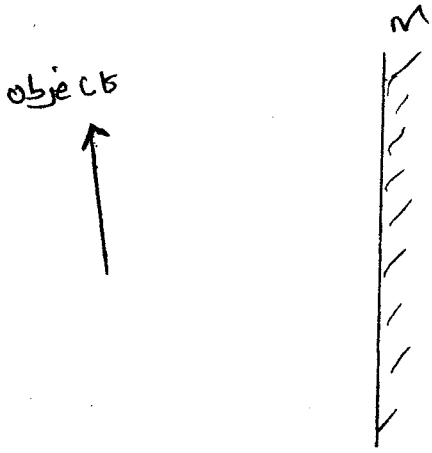
11. The diagram below shows a ray of lights incident on a plance mirror at an angle of 60°. Find the angle of reflection. (2mks



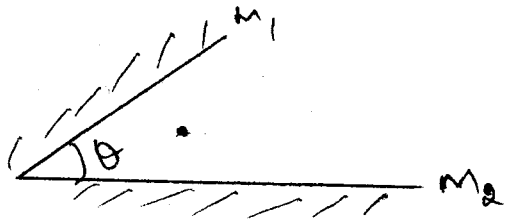
c) When the mirror is rotated through 10° in a clockwise direction, Find the new angle of reflection if the incident ray remains un changed. (3mks

12. State the characteristics of images formed on a plane mirror. (4mks

13. Using construction method, draw the image of the object shown. (6mks



14. Calculate the angle between the following mirrors if the number of images formed is 19. (3mks



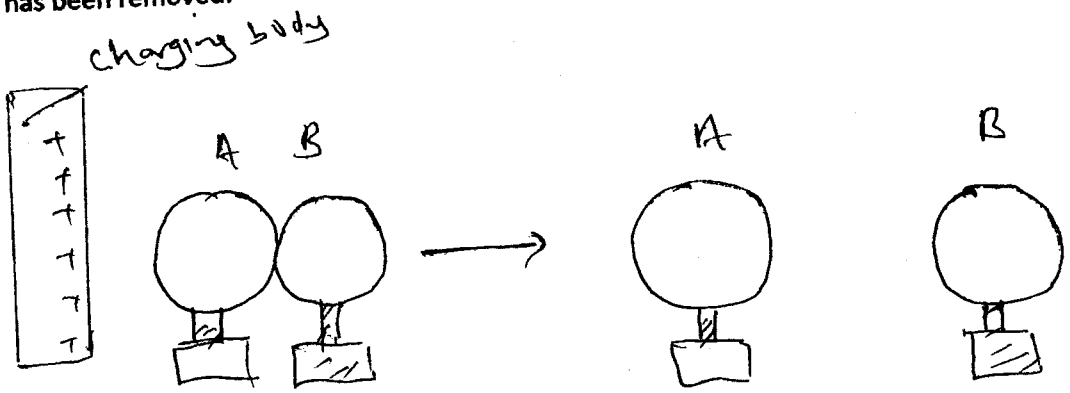
15. Define electro statics. (2mks

16. What is the meaning of the following terms.

i) Negative charge (2mks

ii) Positive charge (2mks

17. The following spheres were charged by separation method show the charge distribution after the rod has been removed.



After seperation and charge removed.

18. State 4 uses of a gold leaf electroscope. (4mks

19. Describe how a gold leaf can be charge Negatively by induction method. (6mks

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