GATITU MIXED SEC SCHOOL

PHYSICS FORM 4 END TERM EXAM TERM 1 2015

1. Give the difference between a convex and concave lens. 2mks
2. Define the following terms
3. Photoelectric effect 1mk
4. Threshold frequency 1mk
5. Work function 1mk
6. Electron volt 1mk
7. State three properties of electromagnetic waves. 3mks
8. State the law of flotation. 1mk
9. A body having a mass of 0.5kg is tied to a string and whirled in horizontal circle of radius 2m with a speed of 3.16ms-1. Calculate
10. The centripetal acceleration 2mks
11. The tension in the string 2mks
12. State three properties of an object formed at infinity. 3mks
13. A car of mass 100kg moves round a circular track of radius 100m with a linear speed of 20ms-1. Calculate
14. Angular velocity. 2mks
15. Centripetal acceleration. 2mks
16. Why is it possible for an inflated balloon to be lifted up. 2mks
17. State three applications of gamma rays. 3mks
18. Compare the energy contained in a proton of red light of wavelength 7.0 × 10m-2 and violet light of wavelength 4.0× 10m-1
19. Give two similarities between the eye and the camera. 2mks
20. A particle moving in a circular path covers one revolution in seconds.calculate its angular velocity. 3mks
21. State the dangers of the following electromagnetic waves
22. X rays 1mk
23. Microwave 1mk
24. Ultra –violet 1mk
25. State three factors affecting photoelectric effect. 3mks