***FORM 1 END TERM EXAM TERM 1 2017 PHYSICS TIME: 2HRS***  NAME…………………………………………… CLASS……………………………… ADM NO……………………………. 1. Define Physics . (1mk) 2. Explain five branches of Physics . (10mks) 3. Explain how Physics relate with the following: (10mks) a) Religion b) Mathematics c) Home science d) Technology e) Chemistry 4. State ten career opportunities in Physics . (10mks) 5. State and explain eight laboratory rules . (8mks) 6. Define length and state its SI unit . (2mks) 8. An empty bottle has a mass of 25g. Its mass is 50g when full of water and 45g when full of another liquid . What is the density of liquid in Kg/m (5mks) 9. James found that the perimeter of his farming plot was approximately 200 strides . His stride was 0.9m long. What was the perimeter of the plot. (3mks) 10. Define area and state its SI unit . (2mks) 11. a) A Sphere of diameter is mouled into a thin uniform wire of diameter 0.2mm . Calculate length of the wire in metres . (4mks) b) Draw the following a) Pipette (1mk) b) Measuring cylinder (1mk) c) Burette (1mk) 12. If a ream of 500 papers weighs 2.5 Kg, find the mass of a single sheet in Kg. (3mks) 13. During a Physics lesson, Joan found that her shadow was 80cm. Her actual height is 156cm. Estimate the height of a tree whose shadow was of length 540cm at the same time. (4mks) 14. Describe how you would estimate the thickness of one paper of this book if you are provided with a metre rule only . (3mks) 15. State three limitations of using the displacement method when determining the volume of an irregular solid . (3mks) 16. State five importance of studying Physics. (5mks) 17. Calculate the length of a thread required to wind closely 10 turns on a cylinder of diameter 5.1cm. (2mks) 18. State and explain four accidents likely to occur in the school laboratory and give the first aid measure to be applied. (8mks)