**JUJA GIRLS & MIDWAY BOYS SCHOOLS**

**FORM ONE RAT TERM I 2018**

***Answer all questions***

1. Define Physics (1mk)
2. Name any ***three*** wonders of nature explained by Physics. (3mks)
3. State and explain any ***three*** branches of Physics. (6mks)
4. Explain how Physics relates with the following subjects:
5. History (2mks)
6. Chemistry (2mks)
7. Mathematics (2mks)
8. Explain the role Physics in the following technological fields:
9. Medicine (2mks)
10. Information Communication Technology (2mks)
11. Complete the table below appropriately. (7mks)

|  |  |  |
| --- | --- | --- |
| **Basic physical quantity** | **SI unit** | **Symbol of unit** |
|  | Candela | Cd |
| Length | Metre |  |
| Mass |  | kg |
| Electric current |  | A |
|  | Kelvin | K |
| Time | Second |  |
|  | Mole | mol |

1. Distinguish between basic physical quantities and derived physical quantities.(2mks)
2. Define the following terms:
3. Length (1mk)
4. Area (1mk)
5. Volume (1mk)
6. State ***two*** factors to consider when choosing an instrument for measuring length.(2mks)
7. State ***three*** precautions which need to be taken when using a metre rule to ensure accurate measurements of length. (3mks)
8. In an experiment to determine the height of a flag post, the following readings were obtained:

* Length of shadow of a metre rule = 96cm
* Length of shadow of flag post = 672cm

Determine the height of the flag post in metres. (3mks)