**HEIGHTS SECONDARY SCHOOL –THIKA
FIRST-TERM 2017 FORM ONE
MID-TERM EXAMINATION
PHYSICS
TIME: 2HOURS**

**ANSWER ALL QUESTIONS**

1. **Define the term physics.

 (2mks)**
2. **Complete the table below by filling the blank spaces .**

|  |  |  |
| --- | --- | --- |
| **Basic Physical Quantity** | **SI UNITS** | **Symbol of Units** |
|  | **Metre** | **M** |
| **Mass** |  | **Kg** |
|  | **seconds** |  |
| **Electric current** | **Ampere** |  |
| **Thermo dynamic temperature** |  |  |
| **Luminous intensity** | **Candela** |  |
|  | **Mole** |  |

**(10mks)**

1. **Define the term area and give its SI unit.

 (2mks)
b)Express the following in cm2  (6mks)i) 25m2

 ii) 0.009m2

iii)0.000005km2**
2. **Calculate the area of a circle of radius 7cm.

 (3mks)**
3. **Calculate the area of the figures below.
**
4. **a) Define the term volume and give the SI unit.

 (2mks)
b) Express the following in M3.**

**i) 90,000cm2 (2mks)

ii) 270,000cm2 (2mks)

iii)3000000 cm2 (2mks)**

1. **A block of wood is 5cm long 4 cm wide and 2.5 cm high. Calculate its volume.

 (3mks)**
2. **Find the volume of a cylinder of radius 7 cm and height 5 cm.

 (3mks)**
3. **Find the volume of the sphere whose radius is 3.0 cm.

 (3mks)**
4. **Determine the area of a map of a plot shown below.

 (4mks)**