1 .What is physics (2marks)

2. State and describe **five** branches of physics (10marks)

3.Explain the relationship between physics and the following subjects (4marks)

a)History

b) Homescience

c) Mathematics

d) Chemistry

4.List **four** coursesthat require sound knowledge of physics offered at the University level (4marks)

5.a)Define the term laboratory (2marks)

b)State **five** laboratory rules to be observed when working in the laboratory (5marks)

6. a)Define matter (2marks)

b)State the three states of matter (3marks)

7.Define length and state its SI Units (3marks)

8.Diffrentiate between basic physical quantities and derived quantities giving an example in each case (4marks)`

9.List four courses that require sound knowledge of physics offered at the college level (4marks)

10. Fill in the SI units and symbols of the following basic physical quantities (14marks)

|  |  |  |
| --- | --- | --- |
| Basic Physical Quantity | SI Unit | Symbols of units |
| Length |  |  |
| Mass |  |  |
| Time |  |  |
| Electric Current |  |  |
| Thermodynamic Temperature |  |  |
| Luminous Intensity |  |  |
| Amount of Substance |  |  |

11.Convert the following to metres (2marks)

a) 0.00003 KM

b) 300 MM