**NAME OF SUBJECT TEACHER: MR SOLOMON UWAOMA**

**CLASS: SS2**

**PHONE NUMBER: 08068735956**

**SUBJECT: BASIC ELECTRICITY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **TOPIC** | **CONTENT** | **PERFORMANCE OBJECTIVES** | **PRACTICE QUESTIONS** |
| 1 | **HAND TOOLS** | -tools and testing instruments  -uses of tools and testing instruments | Identify various tools and Testing instruments.  State the uses of various hand tools and measuring instruments | 1. Briefly explain and tools and testing instruments  2. Mention any five hand tools and testing instruments  3. State the uses of the following tools and testing instruments  (a) screw drivers  (b) pliers  (c) megger  (d) scrappers  (e) hammer  (f)files |
| 2 | **MEASURING INSTRUMENT** | -electrical measuring instrument  -operational range of electrical measuring instrument.  -uses of electrical measuring instruments | Identify electrical measuring instruments  State the operational range of electrical measuring instruments.  Use electrical measuring instruments  Convert moving coil instrument into ammeter voltmeter. | 1. with the aid diagram describe how to convert a galvanometer to an ammeter.  2. with the aid  diagram describe how to convert a galvanometer to a voltmeter.  3. List the operational range of the following measuring instruments  (a) Voltmeter  (b) ammeter  (c) Wattmeter  4. State any five application of any five measuring instruments |
| 3 | **INSTRUMENTATION ERROR** | -electrical measuring instruments errors  -identifications of sources of errors  -Reduction of electrical measuring instruments error | Identify sources of errors in electrical measuring instruments  Reduce electrical instruments errors | 1. describes sources of errors in electrical instruments.  2. demonstrates how instrument errors are reduced or minimized during measurement.  3. Differentiate between zero error and error due to parallax  4. differentiate between random and static error. |
| 4 | **ELECTRICITY GENERATION** | -concept of electricity generation  -types of generating stations  -advantages and disadvantages of various generating stations. | Explain the meaning of electricity generation.  Name the different means of electrical power generation.  Explain the principles of operation of various electricity generating stations.  Identify major components in a power generating plants | 1. Explain the meaning of electricity generation.  2. State the advantages of hydro-power plant over steam power plant.  3. Illustrate the operation of hydro-power generation.  4. Mention the types of electricity generation plants |