ACK DIOCESE OF MUMIAS JOINT EVALUATION EXAMINATIONS

233/3 CHEMISTRY PAPER 3 PRACTICAL SEPTEMBER 2022

In addition to the common laboratory apparatus and fittings, each candidate shall be supplied with the following:

- ➤ 80cm³ of solution F
- ➤ 80cm³ of solution G
- ➤ 30cm³ of solution N
- ➤ One 50cm³ burette
- ➤ One 25cm³ pipette
- > Two 250cm³ conical flasks
- ➤ One 100cm³ measuring cylinder
- ➤ One 250cm³ empty beaker
- > Distilled water in a wash bottle
- > One thermometer
- > Source of heat
- ➤ Six dry test tubes
- One glass rod
- > Two boiling tubes
- > One stopwatch
- > One clean dropper
- > One clean metallic spatula
- > One test tube holder
- > 0.5g of sodium carbonate
- > 0.5g solid P
- > 0.5g solid R

The students should have access to the following:

- ➤ Phenolphthalein indicator supplied with a dropper
- > Bromine water supplied with a dropper
- ➤ 2M sodium hydroxide supplied with a dropper
- > 1M barium nitrate supplied with a dropper

NOTES

- 1. Bromine water is prepared by adding 1cm³ of liquid bromine to 100cm³ of distilled water and shaking thoroughly.
- 2. **Solution N** is prepared by adding 3.16g of potassium manganate (vii) in 200cm³ of 2M sulphuric (vi) acid and adding water to make one litre.
- 3. **Solution F** is prepared by dissolving 4g of sodium hydroxide in about 800cm³ of distilled water and making up to one litre solution.
- 4. **Solution G** is prepared by dissolving 12.6g of oxalic acid in 400cm³ of distilled water and making the solution up to one litre.
- 5. Solid P is sodium sulphite and solid R is oxalic acid.