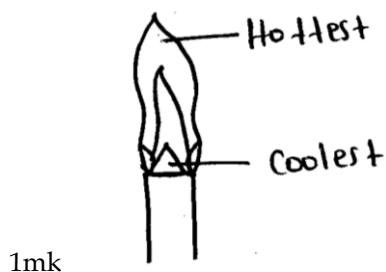


# INTRODUCTION TO CHEMISTRY

## MARKING SCHEME

1. i) The soot it produces dirtifies the apparatus (1)
- ii) The flame is not very hot (1)

2. (a)

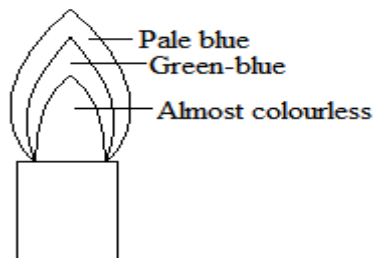


1mk

(ii) Luminous flame has particles of unburnt carbon that glows to produce light while non luminous flame does not have unburnt carbon particles. ✓ 1

3.

- (a) - Bunsen burner ✓1
- Spirit lamp ✓1
- (b) A mixture of burning gases ✓1
- (c)



✓ ✓ ✓ 3mks

- (d)
  - (i) The upper part  $\frac{1}{2}$  of the flame is hotter than the lower region  $\frac{1}{2}$ . 1
  - (ii) The upper part ✓(1) of the flame which is the hottest ✓1

(e) To prevent inflammable substances from catching fire ✓1