NAME: SCHOOL:....

DATE:

INTRODUCTION TO CHEMISTRY

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in this paper in the spaces provided.

1. Give two reasons why luminous flame is not used for heating purposes in the laboratory.

(2mks)

2. The figure below shows the luminous flame of the Bunsen burner.



	(i) On the diagram label the hottest and the coolest part of the flame.	(1mk)
	(ii) Explain why the luminous flame produces more light than the non-luminous f	lame.
		(1mk)
		•••••
3. (a)	Name the apparatus used for heating in the laboratory.	(2mks)
	(b) What is a flame?	 (1mk)
	(c) Name the zones labelled X,Y and Z in the diagram below.	 (3mks)
	XY	



(d) The diagram below shows apparatus of the wood splint put at different parts of a non-luminous flame and removed quickly before they catch fire.



I Wood splint placed at a lower part of the non – luminous flame. II Wood splint placed at the upper part of the non- luminous flame

(i)	What would the experiments show about the outer region of the non-luminous flame? (2mks)
(ii) Fro a reaso	om the above experiment, which part of the flame is better to use for heating? Give n . (1mk)
(ii)	Why is it important to put off naked flames that are not in use in the laboratory?(1mk)