FORM FOUR EXAMINATION					
PAPER 23	1/3				
PRACTICAL.					
MARKING SCHEME					
MAX.40 MKS.					
Food	Procedure	Observation	Conclusion		
substance					

Starch	To a little of substance L in a test tube,add a little iodine	Blue- blackcolour forms	Starch present;	1. (9mks) 2.)Animal
Reducing sugar	To a little of substance L in a test tube add equal amount of Benedict's solution and heat to boil.	Colour remains blue	Reducing sugars absent	teps followed I dentity
Proteins	To a little L,add a little sodium hydroxide followed by a little copper(II) sulphate solution and shake the mixture.	Purple colour forms	Protein present;	E 1 b,2a;
				Mollusca F

b,2b,3a,4a,6a,7b; Crustacea;

G 1b,2b,3a,4a,6b,8a; Arachnida; H 1b,2b,3a,4b,5a; Annelida; J 1a,9a; Cestoda;

½mk

a

1

b.i)Phylum: Arthropoda(1mk)

Class:Insecta (1mk)

- ii) Has three body parts;
- Has three pairs of legs
- Has one pair of wings;
- Has one pair of antennae;

max 3mks

c.i) Presence of legs that walk on contaminated surfaces;

Presence of wings that facilitate movement to and from contaminated surfaces;

Hairly body on which disease causing microorganisms attach;

Has a proboscis to suck /contaminate food; any 2 (2mks)

- ii) Cholera/dysentery(1mk)
- iii) Covering food;

Proper disposal of waste /rubbish;

Eradication of houseflies using insecticides; any 2 (2mks)

3. a)

Magnification – 1mk.

Each correct label-½ mk.

Correct drawing (1mk)

b) Class: Dicotyledonae;(1mk)

Reason: Has two cotyledons has network veins /has at a tap root system. (1mk)

c)

Structure in S ₁	Structure in S ₂
Plumule	Stern system /shoot
Radicle	Root system;
Cotyledon	Seed leaf

Max 2

d.i) S_1 – Epigeal (1mk)

ii) S₃ – Hypogeal (1mk)

d.ii)

S_1	S_3
-Cotyledons pushed above the ground -Hypocotyl elongates	-Cotyledons remain in the soil -Epicotyl elongates

2mks

iii)S₁- has little food store; hence leaves develop early to start photosynthesis; (2mks)

 S_3 - has a lot of food stored; which is enough for early growth, hence no need for early photosynthesis; (2mks)