

Kenya Certificate of Secondary Education

BIOLOGY PAPER 3

MARKING SCHEME

1. (a) (i) T1 – Molar teeth

Reason – presence of cusps/ridges

T2 – Incisors

Reason – chisel shaped/wide/sharp edges/wedge shape

(ii) Vegetation/grass/shrubs/herbs/plant leaves rej. Pasture, herbivores, vegetables but mark reason

Reason

- Presence of diastema;
- Absence of teeth (incisor and canine) at the front part of the upper jaw;
- Presence of horny pad;

- Presence of premolars/cusps for grinding vegetation

- (iii) 20
- (b) (i) C Tibia
 - E Fibula
 - (ii) Femur

Joint – Hinge joint

- 2. (a) (i) Tuber
 - (ii) Presence of auxillary buds/scale leaves



(b) (i)

Tube	Observations
А	Bubbles formed/effervescence
В	Very few/No bubbles/no effervescence
С	A lot of bubbles produced

(ii) Tube B: The enzyme was denatured by boiling; hence could not break down hydrogen peroxide into water and oxygen

Tube C: The cutting increased the surface area; Thus exposing more enzyme catalase to break down hydrogen peroxide into water and oxygen

(c) (i) Hydrogen peroxide + catalase enzyme → water + oxygen + catalase er								
	Or		Catalase					
	Hydrog	gen pe <mark>roxide </mark>		water + oxygen				
	Enzyme Rej. If symbols are used							
(ii) Detoxification;								
(iii) Liver;								
	3.	(a) (i) J – Monoc	otyledonae;					
		K – Dicotyle	edonae;					

(ii) J – Fibrous roots present; leaves with parallel veins;

K – Tap roots present; two cotyledons present; leaves with network venation;

(b) J – Hypogeal;

K – Epigeal;

(c) R – Cotyledon remains;

Q - Root hairs;



