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FORM 3 BIOLOGY PRACTICAL END TERM EXAM – MARCH 2016 TIME: 1 HR 30 MINS

NAME:	ADM NO:	CLASS:

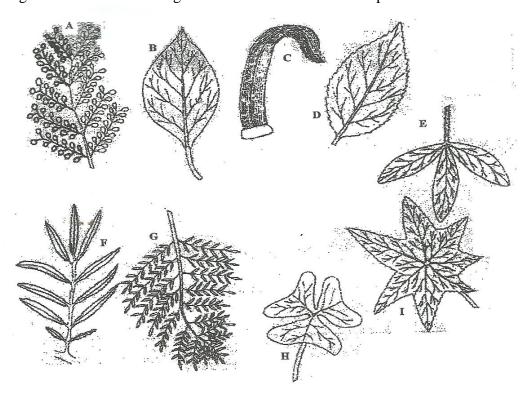
## **INSTRUCTIONS**

- 1. Answer all questions in the spaces provided.
- 2. Wrong spelling especially for biological terms will be penalized.

QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
1	15	
2	16	
3	12	
TOTAL SCORE	40	

This paper consist of 5 printed pages

1. The diagrams below are drawings of leaves from five different plants.



Using the key provided identify the plants from which the leaves were obtained and fill the table below. (10 mks)

## **KEY**

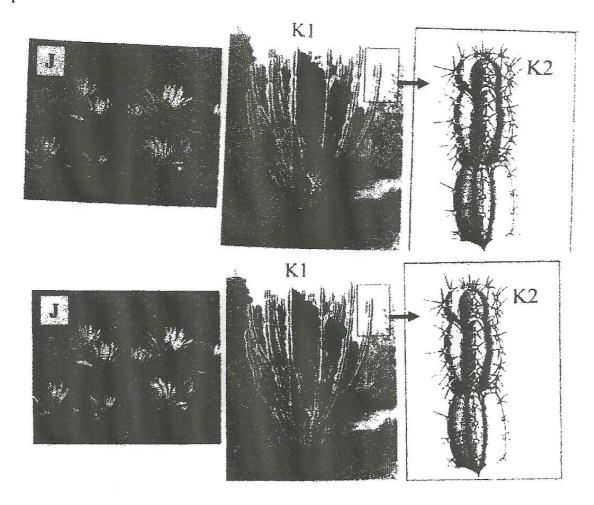
1.	(a) Leaf simple	Got to 2
	(b) Leaf compound	Go to 5
2.	(a) Leaf with parallel veins	Maize
	(b) Leaf with network of veins	.Go to 3
3.	(a) Leaf lobed	Castor oil
	(b) Leaf not lobbed	
4.	(a) Leaf with a smooth margin	Bougainvillea
	(b) Leaf with a serrated margin	Hibiscus
5.	(a) Leaflets arising from the same point at the tip of petiole	Go to 6
	(b) Leaflets arising at different points along the common stalk	Got to 7
6.	(a) Leaflets triangular with narrow base and broad end	Oxalis
	(b) Leaflets broad in the middle and narrow at both ends	Crotalaria
7.	(a) All the leaflets attached to one main stalk	Mexican marigold
	(b) Leaflets attached to several small stalks arising from the main stalk	Go to 8
8.	(a) Leaflets rounded at the end and no terminal leaflet	Flambouyant
	(b) Leaflets points at the end terminal leaflet present	Jacaranda

	Leaf	Steps	Identify
	A		
	11		
	В		
	С		
	D.		
	D		
	Е		
(b)	Using obse	ervable features only state the classes to which leaves C and l	D belong.
	Leaf C		
	Class		(1 mk)
	Reason		
			(1 mk)
	Leaf D		
	Class		(1 mk)
	Reason		
			(1 mk)
			· · · · ·

Food substance	Procedure	Observation	(12 mks	
1 oou bubbunce	Troccuire	Obsci vation	Conclusion	

(c) Name the regions in the alimentary canal where substance X is enzymatically digested.  (3 mks)	(b) Give one end products of digestion of food substance X.	(1 mk)
	(c) Name the regions in the alimentary canal where substance X is en	nzymatically digested. (3 mks)

3. Photographs J and K1 represent specimens which are obtained from different habitats. K2 represents the features of the stem of K1.



(a)	With reasons, identify the habitat where each specimen is found.	(4 mks)
<i>a</i> >		
(b)	Describe the observable features which adapt specimen K1 to its habitat.	(2 mks)
(c)	State the significance of the numerous leaves in specimen J.	(3 mks)
(d)	Suggest expected differences between root systems of specimen J am K1.	(2 mks)
(e)	Give the term used to describe plants found in the same habitat with specimen	n K1. (1 mk)