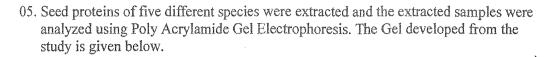


NOD	OOR 1ES1	
DURA	ATION – ONE (01) HOUR	Reg. No
Date:	28 <sup>th</sup> March 2013	Time: 4.00- 5.00 p.m.
Answ	er all Questions using space provided i	n the question paper.
	What are the two factors that contribute ganisms?	to the variations of the phenotype of
i	***************************************	***************************************
ii	•••••	***************************************
b)	exercises in Plant Systematics?	ld consider with regards to these variations in
	•	
c)	What are the major mechanisms of pre- reproductive isolation?	venting fertilization in the process of
d) i	List the three major definitions put forv	
i	i	***************************************
ii	i	•••••••••••
	Give two advantages and two disadvan source of taxonomic evidences.  vantages	tages of using morphological features as
i		
ii	•	

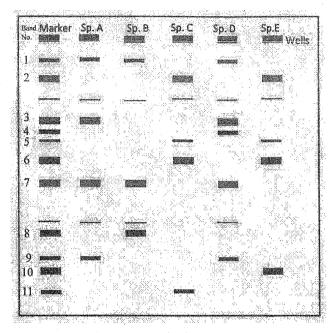
DISA	uvantages	
	***************************************	
	***************************************	
	a). Give four (04) personals or resources to which one should give proper	
U3.		010011111
	writing taxonomic papers	
	***************************************	
iv		
	b) List the logical steps involved in Numerical Taxonomy	
	b) List the logical steps involved in realience raxonomy	
i		
iii		
iv		····
v		
04.	a) List three assumptions about the evolution that we make in Cladistic a	ınalysis
i		
ii	······································	
	•••••	
	b) Give two naturally occurring events that might give rise to distorted Cl	adograms
	b) Give two naturally occurring events among a second	
i		
	·	
ii		.,
		• • • • • • • • • •



Lane 1 – Marker (use this lane to identify different bands)

Lane 2 – Sp. A, Lane 3 – Sp. B, Lane 4 – Sp. C, Lane 5 – Sp. D,

Lane 6 - Sp. E

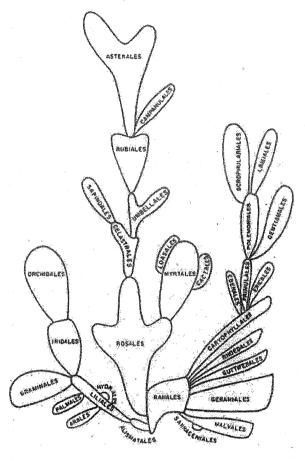


i. Using the banding pattern in the gel, develop a dichotomous key to classify the 5 species.

ii The researcher has identified that out of the five species, 2 species belong to Family Apocynaceae and the other 3 are of Family Rubiaceae.

Carefully examine the gel picture and identify the species belong to Family Apocynaceae.

06. Examine the following Bubble diagram (Bessyan Cactus) which constructed based on the number of members belongs to the orders in Plant Kingdom. Answer the following questions.



i)	When considering the Orders ROSALES and RUBIALES, which is the most advanced?
ii)	State the Order which includes the highest number of members in the branches
der	rived from the Order ALISMATALES?
iii)	Name the Order which possess evolutionary most advanced characters?
iv)	State the Order which possibly gives rise to the Order MYRTALES?
v)	State whether the Order IRIDALES belongs to the Monocotyledons or
	Dicotyledons?
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