

KERALA AGRICULTURAL UNIVERSITY B.Sc. (Hons.) Forestry 2018 Admission I Semester Final Examination-February 2019

Dendrology (2+1)

Marks: 50 Time: 2 hours

I		Fill in the blanks		(10x1=10)	
	1	The number of natural orders in Benthem and Hooker classification is			
	2	When the published name of a plant have many more scientific names, rule of the ICBN will be applied to find the correct name			
÷	3	A modified and specialized leaf in the inflorescence, standing below partial peduncle is known as			
	4	The meristamatic cells in the periderm are known as			
	5	Corky eruptions on the bark that allow gas exchange called			
	6	The part of the tree trunk below the lower most branches is called as			
	_	State True or False			
	7	The term 'taxonomy' was coined by A.P.D. Candolle			
	8	When two leaves are born on the same node but on the opposed sides of the stem, the leaf arrangement is known as alternate			
	9	The plant species in which female and bisexual flowers on the same plant is known as gynomonoecious			
	10	or to at 1 1 (Dill 1) and a second plants			
		with 4 long and 2 short stamens			
п		Write Short notes on any FIVE of the following (5x2=10)			
	1	Species concept in plant taxonomy.			
	2	Commercially important bark exudates and their sources (any four)			
	3	Four important tropical timber trees are given below. Arrange them along with correct family			
		1 Tectona grandis	а	Sterculiacea	
		2 Dalbergia latifolia	b	Moraceae	
		3 Terminalia arjuna			
		4 Artocarpus hirsutus	d	Fabaceae	
		12.100m.p.m.	е	Lamiacea	
			f	Combretacea	
	4	Define the taxonomic term	sTautor	ym and Nomennudum	
	5	and the state of t			

description of his contributions to plant taxonomy.

P.T.O

- 6 Important vegetative characteristics of leaves used in the taxonomic description of a woody forest species.
- 7 ICBN conditions for retention and choice of names during division or union of taxonomic ranks

III Answer any FIVE of the following.

(5x4=20)

- 1 Major post-Darwinian systems of classification
- 2 Periderm and its significance in bark texture of tree trunk
- 3 Phyllotaxy and its important types in plants
- 4 Major differences between lenticels and rhytidome with important types of lenticels in dicots
- 5 Position of ovary and perianth play an important role in angiosperm taxonomy. Justify the statement with a brief explanation of different floral types based on ovary and perianth
- 6 Important floral features of Anonaceae, Malvaceae, Bignoniacea and palmae
- 7 Placentation types and their phylogenetic relationship

IV Answer any ONE of the following

(1x10=10)

- 1 Nomenclatural type with different kind of type materials used in plant nomenclature.
- 2 Important characteristics, merits and demerits of Benthem and Hooker Classification.
