CREDIT BASED THIRD SEMESTER B.Sc. DEGREE EXAMINATION APRIL 2012 **BOTANY**

PLANT DIVERSITY -II

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Max. Marks: 80

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- 1. Answer both Part A & Part B.
- 2. Answer SIX full questions from Part B, selecting at least two full questions from each unit.

	3. Al	l questions in Part B carry equal marks. raw diagrams wherever necessary.	
·		PART – A	
1.	Anso a) b) c) d) e) f) g) h) i) j) k)	wer any TEN of the following. What are assimilatory roots? Give one example. What is a simple cyme?. What is Phyllotaxy? Mention any two types What is a follicle. Give one example. Mention the types of fruit seen in family Anacardiaceae. Name any two National Herbaria. Give the scientific name of any two plants of family Cucurbitaceae. What is phylogenetic system of classification? Who proposed it? Give the scientific name and family of sugarcane. Explain the type of inflorescence in family Arecaceae Explain gynoecium of family Solanaceae. Write the uses of Nutmeg.	2x10=20
		PART – B UNIT – I	
Ans	wer a	ny TWO of the following.	2x10=20
2.	a) b) c)	Give an account of any two types of fleshy fruits with examples. Mention the types of leaf modification with examples. Write the features of roots in Vanda.	05 03 02
3.	a) b) c)	Write briefly the types of aerial stem modifications with examples. Write a note on Cohesion of stamens Mention the different types of placentation seen in Angiosperms.	05 03 02
4.	a) b) c)	Explain any 5 types of Racemose infloresences. What is Sorosis? Give two examples. Draw the diagram of imbricate aestivation.	05 03 02

Ans	wer a	any TWO of the following.	10x2=20
5.	a) b)	Differentiate between the sub families Ceasalpinoideae and Papilionoid Write down any three salient features of Bentham & Hooker's system of	f classification
	c)	Describe androecium in cucurbitaceae.	03 02
6.	a)	Write down the techniques of Herbarium preparation.	05
	b) c)	Write a brief note on Chemotaxonomy. Give any four identifying features of family Myrtaceae	03 02
7.	a)	Give the important diagnostic features of family Rosaceae	. 05
	b) c)	Write the principles of ICBN What is digital flora? Mention any two uses.	03 02
		UNIT – III	
Ans	wer a	any TWO of the following.	10x2=20
8.	a)	Describe the flower of family Orchidaceae.	05
	b) c)	Give the botanical name, family and economic importance of Turmeric What is Palea & Lemma? Where is it seen?	03 02
9.	a)	Explain the inflorescence seen is genus Euphorbia	05
	b) c)	Write the scientific and family names of Tea and Cocoa. Write the uses of Hevea.	03 02
10.	a)	Give the important diagnostic features of family Acanthaceae	05
	b) c)	Write scientific names of maize, Ragi and wheat. Name the part used for oil extraction in coconut, sunflower, groundnut,	03 Eucalyptus.

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CREDIT BASED THIRD SEMESTER B.Sc. DEGREE EXAMINATION OCTOBER 2013

PLANT DIVERSITY-II

Time:	3	Hrs	

Max. Marks: 80

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- 1. Answer both Part A & Part B.
- 2. Answer two full questions from each unit.

		l questions in Part B carry equal marks. aw diagrams wherever necessary.	
		PART – A	• .
1.	Ans	wer any TEN of the following.	10x2=20
	a)	What are adventitious roots? Give one example.	
	b)	What is a cladode? Mention its significance.	
	c)	Differentiate corymb from umbel.	
	d)	Draw a diagram of quincuncial aestivation of corolla.	
	e) .	What is binomial nomenclature? Give one example.	
	f)	What is meant by pulvinate leaf base? Mention the family in which it is	present?
	g)	Write the names of any two floras that are commonly used.	
	h)	"Peeling bark" is a characteristic feature of which family? Give one exa	ımple.
	i)	What is Pappus? What is its importance?	
	j)	List the types of inflorescences in the family Euphorbiaceae.	
	k)	What is Resupination? In which family is it characteristically seen?	
	1)	Write the botanical name and family of cardamom.	
		PART – B	
		UNIT – I	
An	swer a	any TWO of the following.	10x2=20
2.	a)	Describe the underground stem modifications with suitable examples.	5
	b)	What is Calyx? Mention any two types with suitable examples.	3
	c)	What is Pistil? Mention its parts.	2
3.	a)	Describe the staminal variations with suitable examples and diagrams.	5
	b)	Explain the terms phylloclade, offset and sucker.	3
	c)	Mention any two tap root modifications with examples.	2
4.	a)	What are fruits? Explain the different types of simple fleshy fruits with	5
		suitable examples.	3
	b)	Write a note on hypanthodium type of inflorescence with a diagram.	3

What are stipules? List any two modifications.

Answer any TWO of the following	Answer	any	TWO	of the	foll	owing
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5.	a)	Explain the salient features of Bentham and Hooker's system of classification with merits and demerits.	5
	b)	What is herbarium? List any two uses.	3
	c)	Write a note on fruits in Ancardiaceae with suitable examples.	2
6.	a)	Give the diagnostic characters of family <i>Malvaceae</i> with botanical names and uses of any two plants.	5
	b)	Describe the androecium in the subfamilies of Fabaceae.	3
	c)	Mention any two National herbaria.	2
7.	a)	Give the diagnostic characters of family Rosaceae with botanical names and	
		uses of any two plants.	5
	b)	Write a note on chemotaxonomy.	3
	c)	Expand ICBN. When did it come into force?	2
	-	UNIT – III	
Ans	wer a	any TWO of the following. 10x2=	20
8.	a)	Write the common name and botanical names of any five pulses you have studied.	5
	b)	Write a note on spikelet with a diagram.	3
	c)	Comment on the carpels of Solanaceae.	2
9.	a)	Give the diagnostic characters of <i>Liliaceae</i> with the botanical names and uses of any two plants.	5
	b)	Explain the terms - gynobasic style, Rostellum, Jaculator	3
	c)	Write the botanical name and uses of Adathoda.	2
10.	a)	Give the diagnostic characters of <i>Amaranthaceae</i> with the botanical names and uses of any two plants.	5
	b)	Write a note on pollinium with an example.	3
	٠.	White the betanical names of any two fibra yielding plants with the part used	2

BOT 301.1 Reg. No. CREDIT BASED THIRD SEMESTER B.Sc. DEGREE EXAMINATION OCTOBER 2014 **BOTANY** PLANT DIVERSITY-II Max. Marks: 80 Time: 3 Hrs **Instructions:** 1. Answer both Part A & Part B. 2. Answer two full questions from each unit. 3. All questions in Part B carry equal marks. 4. Draw diagrams wherever necessary. PART - A 10x2=201. Answer any TEN of the following. What is phyllotaxy? Mention any two types. a) **b**) Differentiate hypogyny and epigyny. What is Pappus? Mention its function. c) What is meant by cruciform corolla? Give one example. d) e) Define the terms species and genus. f) What is digital flora? Differentiate legume and lomentum. g) h) What is phylogenetic system? who proposed it? What are Lemma and Palae? i) j) Write the botanical name, part used and uses of pepper. Mention any two types of inflorescences found in the family Lamiaceae k) Name any two beverages with their botanical names. I) PART - B UNIT - I 10x2=20Answer any TWO of the following. Explain the structure of a typical leaf with a diagram. Describe the modification in 2. a) Nepenthes, Bryophyllum, Pisum 5 3 b) Write the functions of the following with one example each i) Prop roots ii) Napiform roots iii) Pneumatophores 2 What are multiple fruits? Give two examples. c) 3. Define the following terms: a) i) Aestivation ii) Accrescent iii) Perigyny

		iv) Glabrous	
		v) Sessile	
	b)	Differentiate between rhizome and corm.	
	c)	Differentiate helicoid and scorpioid cymes with examples.	
4.	a)	What is placentaion? Explain any four types with diagrams and exampl	les. 5
	b)	Write a note on any three types of dry dehiscent fruits.	3
	c)	What is Synandry? Give an example.	2
		$\mathbf{UNIT} - \mathbf{II}$	
Ans	wer a	iny TWO of the following.	10x2=20
5.	a)	Explain the herbarium techniques. Name any two National herbaria.	5
	b)	Write a note on papilionaceous corolla.	3
	c)	What is Pepo? In which family is it characteristically seen?	2
6.	a)	Explain the salient features of family Anacardiaceae.	5
	b)	Write a note on androecium and gynoecium of family Malvaceae	3
	c)	Name any two types of fruits of Rosaceae with suitable examples.	2
7.	a)	Give the diagnostic characters of family <i>Myrtaceae</i> with botanical namuses of any two plants.	es and 5
	b)	Differentiate sub families Caesalpinioideae and Mimosoideae	3
	c)	Write a note on Chemotaxonomy.	2
		UNIT – III	
Ans	wer a	any TWO of the following.	10x2=20
8.	a)	Give the diagnostic characters of the family Apocynaceae.	5
	b)	Give the scientific name and economic uses of the following	
		i) Ground Nut ii) All spice iii) Jute.	3
	c)	Write a note on Rostellum and Labellum.	2
9.	a)	Write the common and scientific names and uses of any five medicinal have studied.	plants you
	b)	Write a note on characteristic inflorescence of family Euphorbiaceae.	3
	c)	Write the botanical names of any two economically important plants of <i>Poaceae</i> .	f family 2
10.	a)	Give the diagnostic characters of the family Arecaceae	5
	b)	Write a note on leaves in family Liliaceae.	3
	c)	Write a note on Androecium in family Acanthaceae.	2

BOT 301.

Reg. No.

CREDIT BASED THIRD SEMESTER B.Sc. DEGREE EXAMINATION OCTOBER 2015 **BOTANY**

PLANT DIVERSITY-II

Instructions:

- 1. Answer both Part A & Part B.
- 2. Answer two full questions from each unit.
- 3. All questions in Part B carry equal marks.
- 4. Draw diagrams wherever necessary.

PART - A

		PARI – A	
1.	Ans	10x2=20	
	a)	Differentiate between runner and stolon.	
	b)	What is phyllotaxy? Mention any two types.	
	c)	What is anomalous secondary growth? Give an example.	
	d)	Define apocarpous and syncarpous condition.	
	e)	Write the merits of Natural system of classification.	
	f)	Mention the botanical names of any four pulses.	
	g)	Mention four diagnostic features of family Myrtaceae.	•
	h)	Write any four distinguishing characters of Malvaceae.	
	i)	Write a note on inflorescence in Arecaceae	
	j)	Give the botanical names and uses of the following:	
		a) Sarpagandha b) Coffee	
	k)	Name the type of inflorescence in Ocimum and Leucas.	
	1)	Draw a labeled diagram of hypanthodium.	

PART - B

UNIT - I

Ans	wer a	iny TWO of the following.	2x10=20
2.	a)	Describe the T.S. of Cycas leaflet with a labelled diagram.	6
	b)	What are insectivorous plants? Explain any two types.	4
3.	a)	Describe the male cone of <i>Pinus</i> .	6
	b)	Explain the types of underground root modifications.	4
4.	a)	Explain any three types of aerial stem modifications.	6
	b)	Explain three types of dry fruits.	4

$\mathbf{UNIT} - \mathbf{II}$

Ans	wer a	ny TWO of the following.	2x10=20
5.	a)	Describe any six types of gamopetalous corolla.	6
	b)	What is placentation? Explain the types.	4
6.	a)	Explain cohesion of stamens with examples	6
	b)	Write a note on APG III System.	4
7.	a)	Distinguish between Papilionoidea and caesalpinoidea with example.	6
	b)	Write a note on fruits in Rosaceae	4
		UNIT – III	
Ans	wer a	ny TWO of the following.	2x10=20
8.	a)	Distinguish between family Solanaceae and Acanthaceae.	6
	b)	Write a note on a) Stipules in Rubiaceae	
		b) Inflorescence in Asteraceae	4
9.	a)	Bring out the salient features of Poaceae with 2 plants of economic im	portance. 6
	b)	Write a brief note on a) Fruit in cucurbitaceae	
		b) Leaves in liliaceae.	4
10.	a)	Write a note on a) Inflorescence of Euphorbiaceae	
		b) Salient features of Amaranthaceae.	6
	b)	Describe the flower of orchid.	. 4

CREDIT BASED THIRD SEMESTER B.Sc. DEGREE EXAMINATION OCTOBER 2016

BOTANY -

PLANT DIVERSITY-II

Time: 3 Hrs		Max. Marks: 80
Instructions:		
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- 1. Answer both Part A & Part B.
- 2. Answer two full questions from each unit.
- 3. All questions in Part B carry equal marks.
- 4. Draw diagrams wherever necessary.

PART – A

Answer any TEN of the following. 1. 10x2 = 20a) What is a phyllode? Give an example. What is cleavage polyembryony? Name the genus in which it is found. **b**) What are multiple fruits? Give two examples. c) Define capsule. Mention the types. d) Differentiate synandrous and syngenesious condition. e) Mention the merits of phylogenetic system of classification. f) Give the botanical names and family of tamarind and horsegram. g) What is pappus? Give an example. h) i) Write a note on the type of fruit of Cucurbitaceae. j) What is Corollary Corona? k) Mention the salient features of leaves of Myrtaceae. Assign the following plants to their respective families 1)

PART – B UNIT – I

a) Ricinus communis b) Aloe vera c) Zea mays d) Gomphrena globosa.

Ans	wer a	any TWO of the following.	2x10=20
2.	a)	Describe the structure of male cone in Cycas.	6
	b)	Explain any two underground stem modifications.	4
3.	a)	Describe the female reproductive structures in <i>Gnetum</i> . Mention	
		angiospermic affinities.	6
	b)	Explain pneumatophore and haustoria with examples.	4
4.	a)	Explain the various types of racemose inflorescence.	6
	b)	Write a note on types of pinnately compound leaves.	4

UNIT – II

Answer any TWO of the following. 2x10=2					
5.	a)	Write a note on			
		a) placentation b) Salient features of Malvaceae	6		
	b)	Explain any four types of aestivation.	4		
6.	a)	Give the broad outline of Bentham and Hookers system of classis	fication. 6		
	b)	Describe fruits in Anacardiaceae.	4		
7.	a) -	Write distinguishing characters of Rosaceae with botanical names of two			
		examples.	6		
	b)	Write a note on ICBN.	4	(
		UNIT – III			
Ans	wer a	any TWO of the following.	2x10=20		
8.	a)	Give the diagnostic features of family Asteraceae with two botan and uses of any two plants.	ical names 6		
	b)	Write common name, botanical name and economic importance of plants of Arecaceae.	of any four 4		
9.	a)	Give a comparative account of family Acanthaceae and Lamiacea	ae. 6		
	b)	What is adnation? Explain it with suitable examples.	4		
10.	a)	Explain the characteristics of family Orchidaceae.	6	(
	b)	List four important characters found in Euphorbiaceae.	4		
