

### B.A. / B.Sc. Part – I Annual Examination - 2017

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Subject: Botany-I

PAPER: A (Diversity of Plants)

TIME ALLOWED: 2 hrs. & 30 mins.

MAX. MARKS: 21

### ATTEMPT THIS SECTION-II (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Note: Attempt any THREE questions. All questions carry equal marks. Draw neat and labeled diagrams along with captions where necessary.

#### **SECTION-II (SUBJECTIVE)**

- Q1: a) Give at least six general characters of viruses. (3)
  - b) Write about life cycle of any smut causing fungus. (4)
- Q2. a) How bacteria reproduce? (3)
  - b) Give general characters of vaucheriophyta. (4)
- Q3. a) Give most distinguished features of plasmodiophoromycota. (3)
  - b) Explain sporophyte generation of Anthoceros. (4)
- Q4. a) Describe strobilus of selanginella. (3)
  - b) Give primitive characters of cycas. (4)
- Q5: a) Explain anatomy of Ephedra root. (3)
  - b) Write details of reproduction in Marsilia. (4)

**B.A.** / **B.Sc.** Part – I

**Annual Examination - 2017** 

TIME ALLOWED: 30 mins. Subject: Botany-I

PAPER: A (Diversity of Plants) MAX. MARKS: 14

ATTEMPT THIS SECTION-I (OBJECTIVE) ON THIS QUESTIONS SHEET ONLY Note: Attempt all questions of this Section-I (Objective). Marks will be deducted for wrong spellings, erasing or overwriting.

### **SECTION-I (OBJECTIVE)**

Q.1.	Fill in the	e blanks with appropriate word(s) (8 marks)						
	I.	The nucleic acid of TMV is						
	11.	The bacteria without flagella are called	,					
	III.	The vascular tissue of plants is present in general	eration only.					
	IV.	Volvox belongs to phylum						
	V.	Body of vaucheria is multinucleate, aseptate, multicellular called	•	<b>•</b>				
	VI.	is smut causing fungus.						
	VII.	The body of fungus is called						
	VIII.	Soridia are reproductive body of lichen.						
	IX.	In Porella, spores germinate to produce gener	ation.					
	X.	Group of sporangia in psilotum is called						
	XI.	The fruiting body of Marsilia is called						
	XII.	XII. In selanginella, two types of spores are produce in same						
	XIII.	In cycas gametes are motile.						
	XIV.							
	XV.	XV. In atrachaeophyta, plants without are included						
	XVI.							
Q.2.	Please select True or False statement by encircling "T" or "F". (3 marks)							
	I. In	all viruses genetic material is DNA.	T	F				
	II. In	Algae zygote develops into gametophyte.	T	F				
	III. F	ungi generally do not have isomorphic alternation of generations.	T	F				
·•	IV. M	Ieristems are found in Anthoceros.	T	F				
•	V. E	phedra is fruit producing gymnosperm, so very advance.	Т	F				
		erns are true plants	T	F				
Q.3.	Please e	ncircle the most appropriate answer from given options (a,b,c,d)	(3 marks)					
		Bacteria with one polar flagellum is:  (a) A trichous (b) Mono trichous (c) Lopho trichous (d)	Mono lophotr	ichous				
	II.	All of the following characters are true for algae except one:						
		(a) Rhizoids (b) Zygote (c) Roots (d)	Gametes					
4		In basidiomycota sexual spores are: (a) Basidiocarp (b) Conidia (c) Basidium (d)	Basidiospore					
		Equisetum is: (a) Homosporous (b) Disporous (c) Heterosporous (d)	Asporous					
•		The embryo in gymnosperm is:  (a) Haploid (b) Triploid (c) Diploid (d)	Absent					
		In angiosperms seed develop from:  (a) Ovary  (b) Ovule  (c) Carpel  (d)	Embryo Sac					



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Subject: Botany-I

TIME ALLOWED: 2 hrs. & 30 mins.

PAPER: B (Plant Systematic Anatomy and Development) MAX. MARKS: 21

### USE SEPARATE ANSWER SHEET FOR SECTION-II

## Section-II (Subjective Type)

Note: Attempt any three questions. All questions carry equal marks. Draw neat and labeled diagrams along with captions where necessary. (3x7=21)

Q. 4:	<ul><li>(a) Write a note on Schizocarpic fruits.</li><li>(b) Differentiate between Uniparous Cyme and Biparous Cyme</li></ul>	(4) (3)
Q. 5:	<ul><li>(a) Describe various types of Aerial stem.</li><li>(b) Write a note on Parenchyma tissues.</li></ul>	(4) (3)
Q. 6:	The state of classification.	(4) (3)
Q. 7:	i. Perennial ii. Polygamous iii. Gamosepalous  (a) What is placentation? Describe its different types.  (b) Write a note on compound inflorescence.	(1+3) (3)
Q. 8:	(a) Describe the general characters and economic importance of family Solanaceae.	(4) (3)



### B.A. / B.Sc. Part — I Annual Examination - 2017

Subject: Botany-I

Q. 1 Fill in the blanks (8 marks)

TIME ALLOWED: 30 mins.

Roll No. ....

PAPER: B (Plant Systematic Anatomy and Development) MAX. MARKS: 14

### Section-I (Objective Type)

Note: Attempt all questions of this section in the first 30 minutes and return the script to the examiner. Marks may be deducted for wrong spellings, erasing or overwriting.

i.	In sweet potato type of roots are called		•					
ii.	The plants which live for two growing seasons are called							
iii.	In sugarcane type of roots are called	In sugarcane type of roots are called						
iv.	The leaves which form part of flower ar	e called	•					
v.	The symmetry in which flower is co	ut in two equal halv	es in more than one plane i	s called				
	And the second s							
vi.	The type of placentation in whice	h single ovule atta	ched to base of ovary is	called				
vii.	The flowers develop in Basipetal succes	sion in inflorescence i	s called					
viii.	The fruit of Guava is called	•						
ix.	Sunflower belongs to family	•						
x.	The family Leguminosae is also known							
xi.	Cyathium inflorescence is a character of	f family	•					
xii.	The middle lamella of cell wall is mainl							
xiii.	The Vascular bundles are scattered in th							
xiv.	The calyx and corolla are collectively kn							
xv.	The pits in which secondary wall arches			•				
xvi.	The thin walled simple tissues are called	I						
Q. 2	True or False statements (3 marks)							
	Please select True or False statement l							
i.	Verticillaster inflorescence is found in O	cimum T	F∱					
ii.	The Fibrous tap roots are found in pea	Т	F,					
iii.	Avena sativa is a member of family Eupl	norbiaceae T	F '					
iv.	Pinnate compound leaf is found in Rose	T	F					
v.	Fruit of Orange is drupe	T	F					
vi.	Parenchyma is a complex tissue	T	<b>F</b>					
Q. 3	Multiple Choice Questions (3 marks)	•						
	Please encircle the appropriate letter (a	, b, c or d) of the corr	rect answer.					
i.	Stem is reduced in		$i_c$					
	a. Grasses b. Sweet Potato	c. Turnip	d. None					
ii.	Meristem is found in	o. Turnp	u. 140nc					
	a. Cambium b. Xylem	c. Phloem	d. Cortex					
iii.	Bracket in wheat is called	4	u. Corux					
	a. glumes b. spathe	c. involucre	d. None					
iv.	Caryopsis fruit is found in family:	•	1 VIIV					
	a. Cucurbitaceae b. Euphorbiaceae	c. Poaceae	d. Labiatae					
v.	Simple Umbel is present in:	*:	and interest					
	a. Sunflower b. Cherry	c. Mulberry	d. Apple					
vi.	In family Poaceae Gynoecium is:	4	en e , ♣ ♣ en					
	a. Monocarpellary b. Bicarpellary	c. Polycarpellary	d. None					
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