

RO-003-1015038 Seat No. _____

B. Sc. (Sem. V) (CBCS) Examination

February - 2019

Botany : B - 502 (Biology of Seed Plants) (New Course)

Faculty Code: 003

Subject Code: 1015038

m: 3	1 ,	rm . 1	M 1 70
Time: 2	$\frac{1}{2}$ Hours	[Total	Marks : 70
Instructi	ons: (1) (2) (3)	Attempt all the questions. Answer with draw neat and labell wherever necessary. Figures to the right side indicated for the questions.	
1 (A)	(1) Ephed (2) Mentic reprod affinity (3) Which Ephed (4) Mentic	e following Objective type questions ra belong to Class. On true or false: The male and uctive structure of Gnetum show with angiosperms than gymnospertype of vascular bundle is observa root? On true or false: Each male strobilus the axile of a leaf in Ephedra.	female more rms. ved in
(B)	(1) Classif	brief: (Any One out of Two) fy Gnetum. OR about the external morphology of E	2 phedra
(C)	(1) Explai	detail: (Any One out of Two) n the anatomy of Ephedra young r OR be the internal structure of Gnetum	
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		(4) Vernonia cineria is belongs to Family.	
		(3) In Asclepidiaceae family the modified stamen is known as:	
		(2) In which family style passes through Staminal tube?	
•	(* * /	(1) The flower with superior ovary is flower.	-
3	(A)	Answer the following Objective type questions:	4
		(2) Write the merits of Bentham and Hooker classification system.	
		OR	
	(D)	(1) Explain the aims of taxonomy.	5
	(D)	Write a note on: (Any One out of Two)	5
		(2) Draw the outline of Bentham and Hooker classification.	
		OR	
	(C)	Answer in detail : (Any One out of Two) (1) Write the principles of Taxonomy.	3
	. ~ `		•
		OR (2) Write short note: Taxon, Family.	
		classification system.	
	` /	(1) Write the demerits of Bentham and Hooker	
	(B)	Answer in brief: (Any One out of Two)	2
		(4) Which family possess gynandrophore?	
		(3) Mention true or false - polypetalous means petals are always free with each other.	
		(2) Write the main character of series bicarpellatae.	
		name:	
4	(A)	(1) Bentham and Hooker published their work as	4
2	(A)	Answer the following Objective type questions:	4
		(2) Explain longitudinal section of Gnetum mature ovule with diagram.	
		OR	
		(1) Give the diagrammatic presentation of lifecycle of Gentum.	
	(D)	Write a note on: (Any One out of Two)	5

	(B)	Ans (1)	wer in brief: (Any One out of Two) Assign the following plants to the respective family. (a) Tridax procumbence (b) Tecoma stans	2
		(2)	OR Comment upon calyx and corolla in Asteraceae family	
	(C)	Ans (1)	wer in detail: (Any One out of Two) Give information about the inflorescence of Tiliaceae family. OR	3
		(2)	Give floral formula and diagram of Convolvulaceae family with two scientific names of plants belonging to family.	
	(D)	Wri	te a note on : (Any One out of Two) Give general characteristics of Solanaceae family with floral formula and floral diagram. OR	5
		(2)	Give general characteristics of Cypraceae family with floral formula and floral diagram.	
4	(A)	(1) (2) (3)	wer the following Objective type questions: Write the scientific name of Rose. Heena belongs Family. Which family is known as vegetable family? Cleome viscosa belongs to	4
	(B)	Ans (1)	wer in brief: (Any One out of Two) Give information about the reproductive whorls of Amaranthaceae family. OR Draw a floral diagram and floral formula of	2
	(C)	Ans	Bignonaceae family. wer in detail : (Any One out of Two)	3
	(0)	(1)	Write general characteristic of Rosaceae family. OR	9
		(2)	Give information about whorls of Capparidaceae family.	
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(1)	Give general characteristics of Canaceae family	y
	with floral formula and floral diagram. Give the	е
	two examples of plants belonging to it.	
	OR	
(2)	Give general characteristics of Lythraceae family	У
	with floral formula and floral diagram. Give the	Э
	two examples of plants belonging to it.	
Ans	wer the following Objective type questions :	4
(1)	Mention true or false: Angiosperm always shows	s
	double fertilization.	
(2)	Mention true or false: During embryogeny firs	t
	division of zygote in angiosperm is always	\mathbf{s}
	transverse.	
(3)	Define - Embryogenesis.	
(4)	Write the function of tapetam.	
(B) Answer in brief: (Any One out of Two)		2
(1)	Write a note on Cellular endosperm.	
	\mathbf{OR}	
(2)	Write a note on Nuclear endosperm.	
Ans	wer in detail : (Any One out of Two)	3
(1)	Explain - Factor affecting pollen germination.	
	OR	
(2)	Describe embryo development in monocotyledons	•
Wri	te a note on (Any One out of Two)	5
(1)	Describe Helobial endosperm.	
	OR	
(2)	Describe embryo development in dicotyledons.	
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	(2) Ans (1) (2) Ans (1) (2) Wri (1) (2)	with floral formula and floral diagram. Give the two examples of plants belonging to it. OR (2) Give general characteristics of Lythraceae family with floral formula and floral diagram. Give the two examples of plants belonging to it. Answer the following Objective type questions: (1) Mention true or false: Angiosperm always showed double fertilization. (2) Mention true or false: During embryogeny first division of zygote in angiosperm is always transverse. (3) Define - Embryogenesis. (4) Write the function of tapetam. Answer in brief: (Any One out of Two) (1) Write a note on Cellular endosperm. OR (2) Write a note on Nuclear endosperm. OR (2) Describe embryo development in monocotyledons Write a note on (Any One out of Two) (1) Describe Helobial endosperm. OR

(D) Write a note on (Any **One** out of Two)

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