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## M.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2020.

Third Semester

Botany — Core

## TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY

(For those who joined in July 2017 onwards)

Time: Three hours Maximum: 75 marks

PART A —  $(10 \times 1 = 10 \text{ marks})$ 

Answer ALL questions.

Choose the correct answer:

- 1. Linnaeus is credited with introducing
  - (a) The concept of inheritance
  - (b) Law of limiting factor
  - (c) Theory of heredity
  - (d) Binomial nomenclature

2.	Systema nature written by Linnaeus contains a list of					
	(a) 4000 species of plants					
	(b) 2000 species of plants					
	(c)	4200 species of plants				
	(d)	4200 species of animals				
3.	Synandrous condition is common in the family					
	(a)	Umbelliferae	(b)	Rosaceae		
	(c)	Malvaceae	(d)	Cucurbitaceae		
4.	In which of the following plants do the male and female flowers occurs in the same individual					
	(a)	Pumpkin	(b)	Euphorbialeal		
	(c)	Rose	(d)	Hibiscus		
5.	Major food crops of the world belongs to the family					
	(a)	Leguminosae	(b)	Solanaceae		
	(c)	Cruciferae	(d)	Gramineae		
6.	Labellum in Orchidaceae comes to anterior side by the twisting of the ovary through 180 degree, The process is called					
	(a)	Adnation	(b)	Articulation		
	(c)	Resupination	(d)	Attenuation		
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	torus above all other floral whorls, the flower is said to be					
	(a)	Perigynous	(b)	Epigynous		
	(c)	Inferior	(d)	Hypogynous		
8.		h of the follo tional approach?	wings	systematics	have	
	(a)	Evolutionary	(b)	Phyletic		
	(c)	Numerical	(d)	Homology		
9. Botanical name of the ragi is						
	(a)	Triticum sativum				
(b) Eleusine coracana						
	(c)	Pennisetum glaucum				
	(d)	Panicura sumatrense				
10.	Asafo	ily				
	(a)	Placeae	(b)	Cruciferae		
	(c)	Liliaceae	(d)	Apiaceae		
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In a flower, when the ovary is situated on the

7.

## PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write short notes on species concept.

Or

- (b) How will you prepare the dichotomous key?
- 12. (a) Describe the different stamen morphology in Cucurbitaceae.

Or

- (b) What are the flower characteristics of Apocyanceae?
- 13. (a) List out the characteristics of Euphorbiaceae.

Or

- (b) Comment on floral characteristics of Aristolochiaceae.
- 14. (a) Write notes on digital herbaria.

Or

(b) What are the uses of molecular markers?

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15. (a) Write the binomial name and economic importance of pepper.

Or

(b) List out the plant resources for natural dye.

PART C — 
$$(5 \times 8 = 40 \text{ marks})$$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Describe the artificial system of classification.

Or

- (b) Write notes on principles of ICBN.
- 17. (a) Comparison between Acanthaceae and Verbenaceae.

Or

- (b) Write notes on characteristic features of Lythraceae.
- 18. (a) Describe the features of Amaranthaceae.

Or

(b) Write detailed notes on Commelinaceae.

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19. (a) How will you apply morphological characters in modern plant systematics?

Or

- (b) Explain about RFLP and its applications in biological science.
- 20. (a) Give an account on utilization of ragi.

Or

(b) Discuss on Asae foetida and its economic value.

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