PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024

(Fourth Semester)

Branch - BOTANY

HERBAL SCIENCE

Time: Three Hours					Maximum: 50 Marks	
SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)						
1	Find out the Siddhar. (i) Sushrudha (iii) Charaka			(ii) Theraiyar (iv) Dhanvantari		
2	Indica (i) Lea		art used as medicine (ii) Seed	in <i>Rauvolfia serpenti</i> (iii) Bark	ina. (iv) Root	
3		Eugenol is extracted from (i) Geranium (ii) Vettiver		(iii) Clove	(iv) Thyme	
4	Identify the secondary metabolites. (i) Steroids (ii) Carbohydrates		ary metabolites. (ii) Carbohydrates	(iii) vitamins	(iv) Ethanol	
5	Name an alkaloid, which is rich in Ci (i) Brucine (ii) Quinine			hona tree? (iii) Colchicine	(iv) Digoxin	
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)						
6	a.	OR				
	b.	b. Explain the role of adulterants in natural drugs.				
7	a. Evaluate the threat status of Rauvolfia serpentina as a medicinal plant. OR					
	b. Analyse the therapeutic efficacy of Ashwagandha in human health.					
8	a.	a. Write the botanical names of mint, holy basil and oreganum. OR				
	b. Explain the distillation process through which aromatic oil is being extracted.					
9	 a. Justify the importance of secondary metabolites in plants. OR b. Illustrate a modern technique being used to study secondary metabolites. 					
10	a.	OR				
	b. Analyse the objectives of National Medicinal Plants Board of India.					

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

- 11 a. Elucidates the ways and means of adulteration and drug evaluation.

 OR
 - b. Analyse the scope of pharmacognosy of Indian medicinal systems.
- 12 a. Enumerate and explain the uses of different plant parts of Neem.
 - b. Justify the cultivation of Cinchona in India mentioning its medicinal importance.
- 13 a. Categorize the systematics and uses of any three aromatic plant species in India.

OR

- b. Evaluate the uses of cinnamon and saffron as medicine and kitchen ingredient.
- 14 a. Analyse the basic defence mechanisms observed in plants.
 - b. Assess the various factors influencing the production of secondary metabolites.
- 15 a. Elucidate the extraction method of alkaloids.

OR

b. Appraise the importance of women in medicinal plants entrepreneurship.

7-7-7

END