

MSc DEGREE EXAMINATION MAY 2026

(Fourth Semester)

Branch – BOTANY

HERBAL SCIENCE

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Indian medicine and homeopathy board was established in a) 1995 b) 1994 c) 1996 d) 1997	K1	CO1
	2	The study of use of medicinal plants are known as a) Herbarium b) Pharmacognosy c) Herbalism d) Herbals	K2	CO1
2	3	<i>Rauwolfia serpentina</i> is termed as a snake root plant because a) It possesses venomous poison b) It smell like a snake c) It is used in snake bite d) Its roots appear snake like	K1	CO2
	4	Which of the following plants has anti-diabetic, anti-bacterial and anti-viral properties? a) <i>Curcuma longa</i> b) <i>Cinchona</i> c) <i>Azadirachta indica</i> d) <i>Emblica officinalis</i>	K2	CO2
3	5	Lemon grass is known as a) Cochin grass b) Weed grass c) Mexican grass d) Sea grass	K1	CO3
	6	Vetiver belongs to _____ a) <i>Acanthaceae</i> b) <i>Poaceae</i> c) <i>Fabaceae</i> d) <i>Orcidaceae</i>	K2	CO3
4	7	Name the class of secondary metabolites which is characterized by the presence of the hydroxyl group with an aromatic ring? a) Glycosides b) Phenolics c) Alkaloids d) Terpene	K1	CO4
	8	Secondary metabolite is source for a) Drugs b) Fragrances c) Dyes d) Ointment	K2	CO4
5	9	Solvent extraction is governed by which law? a) Boyle's law b) Ostwald dilution law c) Nernst distribution law d) Beer's law	K1	CO5
	10	Which of the following is an example of true alkaloid? a) Morphine b) Caffeine c) Ephedrine d) Colchicine	K2	CO5

Cont...

SECTION - B (35 Marks)

Cont...

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Outline the scope of pharmacognosy.	K2	CO1
		(OR)		
	11.b.	Explain the classification of drug.		
2	12.a.	Point out the therapeutic efficacy and chemical constituents of <i>Cinchona</i> .	K4	CO2
		(OR)		
	12.b.	Explain about the Antiseptic properties of neem tree.		
3	13.a.	Interpret the following. Generally the aromatic medicinal plants are very essential to make the healthy population in India.	K5	CO3
		(OR)		
	13.b.	Discuss about the medical uses of <i>Mint</i> and patchouli.		
4	14.a.	Evaluate the cellular localization of secondary metabolites.	K5	CO4
		(OR)		
	14.b.	Prepare the outline of major metabolic pathway.		
5	15.a.	Discuss in detailed about the alkaloids extraction method.	K6	CO5
		(OR)		
	15.b.	Construct the protocol for resin extraction method.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain the essay on Pharmacopoeial standard and its significance.	K4	CO1
2	17	Criticize the herbal drug extracted from <i>Ashwagandha</i> . Add its uses with reference to nervous system.	K4	CO2
3	18	Illustrate the systematic position and medicinal uses with reference to <i>Eucalyptus</i> .	K2	CO3
4	19	Criticize the molecules involved in defense mechanisms in plant system.	K5	CO4
5	20	Discuss the essay on National Medicinal Plant Board in India and add its impact.	K6	CO5

Z-Z-Z

END