

LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

FIFTH SEMESTER – NOVEMBER 2024

UPB 5504 – HERBAL SCIENCES AND ETHNOBOTANY



Date: 18-11-2024

Dept. No.

Max. : 100 Marks

Time: 09:00 am-12:00 pm

SECTION A - K1 (CO1)

Answer ALL the Questions

(10 x 1 = 10)

1. Fill in the blanks

- a) The greek word 'pharmacon' means -----.
- b) Vasaka is used as an -----.
- c) Poultice method refers to -----application of herbs on the skin.
- d) The CARI research institute is located in -----.
- e) ----- tribe depends on diary farming as their occupation.

2. State whether the following statements are TRUE or FALSE

- a) Argemone seeds are substituted for mustard seeds.
- b) *Andrographis paniculata* is used as an antidote.
- c) Turpentine oil is extracted from *Eucalyptus*.
- d) NMPB governs large scale cultivation of medicinal plants.
- e) Documentation of traditional knowledge is essential for preventing biopiracy.

SECTION A - K2 (CO1)

Answer ALL the Questions

(10 x 1 =

10)

3. Choose the correct answer

- a) Stomatal index is used in the microscopic evaluation of
a. pepper b. clove c. Senna d. cinnamon
- b) Vinca rosea is indigenous to
a. India b. Mexico c. Madagascar d. China
- c) Opium is obtained from
a. leaves b. capsule c. bark d. flower
- d) The Unani system of medicine originated from
a. Iran b. Arabia c. Greece d. Germany
- e) The documentation of traditional knowledge helped revoke patents in the case of
a. Cotton b. Sugarcane c. Turmeric d. Potato

4.	Answer the following, each in about 50 words
a)	Differentiate active and inert constituents of drugs
b)	Summarize the therapeutic uses of <i>Riccinus communis</i> .
c)	Comment on slippery elm slurry.
d)	Mention the importance of field work in ethnobotanical research.
e)	Enumerate a few schemes related to tribal development.
SECTION B - K3 (CO2)	
	Answer any TWO of the following in 500 words (2 x 10 = 20) Draw diagrams / flowcharts wherever necessary
5.	Elaborate on the organoleptic methods of evaluation of drugs.
6.	Discuss the uses of <i>Acorus</i> and <i>Aloe</i> in primary health care.
7.	Comment on the various herbal formulations.
8.	Discuss the role of AYUSH.
SECTION C – K4 (CO3)	
	Answer any TWO of the following in 500 words (2 x 10 = 20) Draw diagrams / flowcharts wherever necessary
9.	Explain the classification of drugs.
10.	Elaborate on the organoleptic study of <i>Ocimum sanctum</i> .
11.	Evaluate the scope of ethnobotany and add a note on the recent studies in India.
12.	Elucidate on the knowledge of Irular tribe in plants as medicine.
SECTION D – K5 (CO4)	
	Answer any ONE of the following in 1000 words (1 x 20 = 20) Draw diagrams / flowcharts wherever necessary
13.	Elaborate on adulteration of drugs.
14.	Discuss the occurrence, isolation, identification, therapeutic and pharmaceutical applications of glycosides and tannins.
SECTION E – K6 (CO5)	
	Answer any ONE of the following in 1000 words (1 x 20 = 20) Draw diagrams / flowcharts wherever necessary
15.	Highlight the importance of ethnobotany in the Indian systems of medicine.
16.	Describe the importance of tribal knowledge towards disease diagnosis, treatment and medicinal

	plants. Add a note on the need to document them.
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