

# 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.	<b>Answer the following, each in about 50 words</b>
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)**

	<b>Answer any TWO of the following in 500 words</b>	<b>(2 x 10 = 20)</b>
<b>Draw diagrams / flowcharts wherever necessary</b>		
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)**

	<b>Answer any TWO of the following in 500 words</b>	<b>(2 x 10 = 20)</b>
<b>Draw diagrams / flowcharts wherever necessary</b>		
9.	Explain the classification of drugs.	
10.	Elaborate on the organoleptic study of <i>Ocimum sanctum</i> .	
11.	Evaluate the scope of ethanobotany 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)**

	<b>Answer any ONE of the following in 1000 words</b>	<b>(1 x 20 = 20)</b>
<b>Draw diagrams / flowcharts wherever necessary</b>		
13.	Elaborate on adulteration of drugs.	
14.	Discuss the occurrence, isolation, identification, therapeutic and pharmaceutical applications of glycosides and tannins.	

### **SECTION E – K6 (CO5)**

	<b>Answer any ONE of the following in 1000 words</b>	<b>(1 x 20 = 20)</b>
<b>Draw diagrams / flowcharts wherever necessary</b>		
15.	Highlight the importance of ethanobotany 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.

#####