

CLASS: U.G. – SKILL BASED ELECTIVE

15A / 18

St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 3 Hrs.

MAXIMUM MARKS: 100

SEM	SET	PAPER CODE	TITLE OF THE PAPER
VI	2012	11UBO640602	HERBAL TECHNOLOGY

SECTION – A

Answer all the questions:

20 x 1 = 20

Choose the correct answer:

1. Which part of Cinchona is used in medicine?
 - a) flower buds
 - b) stem bark
 - c) root
 - d) leaves
2. Which one of the following is an example for essential oil
 - a) coconut oil
 - b) clove oil
 - c) castor oil
 - d) Gingly oil
3. Natural pesticide originated from
 - a) ficus tree
 - b) palm tree
 - c) neem tree
 - d) Teak trees
4. Father of plant tissue culture
 - a) Murashige
 - b) skoog
 - c) williams
 - d) Haberlandt
5. Silica gel used in thin layer chromatography (TLC)
 - a) as stationary phase
 - b) as mobile phase
 - c) as dual phase
 - d) none of the above

Fill in the blanks:

6. Roots and rhizomes are collected at the end of the _____.
7. Bitter taste of medicinal plants therapeutically used as _____ agents.
8. _____ are products derived from food sources that provide extra health benefits.
9. Auxins are _____ inducing hormones.
10. Chromatography techniques are used to _____ the bioactive components of natural resources.

State True or False:

11. Decoction is one of the extraction procedures.
12. Foreign matters are one of the physical and chemical constants.
13. Plant allergy is a type of airborne allergies.
14. Undifferentiated mass of tissue is called cloning.
15. Hydrochloric acid is used as solvent in TLC.

Match the following:

16. Rauwolfia - a) plant insecticide
17. Moisture content - b) shoot tip
18. Pyrethrum - c) root
19. Direct organogenesis - d) Presence / Absence of phytochemicals
20. Qualitative Analysis - e) Microbial contamination

SECTION – B

Answer all the questions:

5 x 4 = 20

21. a. Enumerate the sources of herbal raw material.

OR

b. Write a short note on collection and processing of herbal drugs.

22. a. Comment on Moisture content of herbal drugs.

OR

b. Write a brief account on ash values.

23. a. Write a short note on Nutraceuticals.

OR

b. Enumerate the merits and demerits of herbal formulation.

24. a. List out the minimum requirements for operating a plant tissue culture unit.

OR

b. Write down the steps involved in plant tissue culture technique.

25. a. Explain the various methods of analysis of bioactive components of natural sources.

OR

b. Enumerate the various methods of separation of bioactive components of natural sources.

SECTION – C

Answer any FOUR questions:

4 x 15 = 60

26. Explain the seasonal and geographical variations on raw materials of medicinal plants.
27. Write a detailed account on physical constant in herbal drug standardization.
28. Write an essay on herbal formulations.
29. Enumerate and explain the role of various plant growth regulators / hormones (PGRs)
30. Describe any three methods of phyto chemical analysis of bioactive components.
