QP CODE: R250113 **Reg. No……..**

D. PHARM PART-I (R/S) EXAMINATION JANUARY 2025 (ER2020)

PHARMACOGNOSY (ER20-13T)

Time: 3 Hours **Total marks: 80**

[NOTE: Indicate the question number correctly for each answer.
Answers to questions 1-20 should be provided in the first pages as a single unit.
Give labelled diagrams/flow chart wherever necessary. Use only blue/black ink.]

Answer all the following. **(1 x 20 = 20)**

1. Crude drugs with definite cellular structure are called----.
2. Evaluation of crude drugs by colour, odour, taste, size, and shape is called----.
3. Hager's reagent is used to detect the presence of----.
4. Thalleoquin test is used to identify----.
5. According to the Ayurvedic system of medicine, *vata* is composed of----.
6. Volatile substances which give fragrance to the plants are called----.
7. Castor oil is obtained by the ---- of castor seed kernels.
8. Cardamom belongs to the family----.
9. Mayer's reagent contains----.
10. Opium is derived from the latex of ---- belonging to the family----.
11. Name the process for purifying metals and minerals in the preparation of *Bhasma*.
12. Which ketone is found in the volatile oil of fennel?
13. What is the chief constituent present in the resin of Asafoetida?
14. Which tannins do not respond to gold beater's skin test?
15. What is the synonym of Belladonna?
16. Which part of the plant is used for the preparation of Pale Catechu?
17. Name the vitamin found in shark liver oil.
18. Name the extraction method that involves boiling drug powder with water?
19. Which ergot alkaloid is used in the treatment of migraine?
20. Name the sterile threads used to tie up tissues.

Answer any 10 of the following. **(3 x 10 = 30)**

21. Explain the morphological classification of crude drugs.
22. Write the biological source, chemical constituents, and uses of Ispaghula.
23. Write the biological sources of the following drugs:
    a) Rauwolfia b) Tulsi c) Agar
24. Define the following terms with example:
    a) Pharmaceutical aid b) Carminative

P T O

25. Explain the physical evaluation of crude drugs.
26. What are unorganised drugs? Write the biological sources of any two unorganised drugs.
27. What are alkaloids? Explain the general method of their extraction.
28. Classify fibres. Write the biological source and uses of wool.
29. Explain the basic principles of the Siddha system of medicine.
30. Explain the health benefits of omega-3 fatty acids.
31. Write the biological source, chemical constituent, and uses of any one drug obtained from marine source.

Answer any 6 of the following. **(5 x 6 = 30)**

32. What is adulteration? Explain the different methods of adulteration of crude drugs.
33. Briefly discuss the role of medicinal plants in national economy.
34. What are volatile oils? Discuss the different methods of extraction of volatile oils.
35. What are nutraceuticals? Explain the therapeutic applications of antioxidants.
36. Write the biological source, chemical constituents, and use of the following drugs:
    a) Cinchona b) Opium
37. What are the different methods of classification of crude drugs? Explain the chemical classification in detail.
38. Write the biological source, chemical constituents, therapeutic and cosmetic uses of the following drugs:
    a) Olive oil b) Sandal wood oil

****