

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur

Regular Exam - 2080 Mangsir/Poush (Scholarship)

Program: Diploma in Pharmacy

Full Marks: 80

Year/Part: Second (2021)

Pass Marks: 32

Subject: Pharmacognosy

Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group 'A' (Very Short Question)

1. Define the following terms: (any **EIGHT**) **[8×2=16]**

- | | |
|---------------------------|-------------------------|
| a. Pharmacognosy | b. Primary metabolites |
| c. Sources of crude drugs | d. Plant tissue culture |
| e. Optical rotation | f. Pharmaceutical aid |
| g. Resin | h. Palisade ratio |
| i. Ash value | |

2. Answer the following questions: (any **FOUR**) **[4×2=8]**

- a. Write down the chemical constituents of ...
 - i. Ephedra
 - ii. Senna
- b. Mention the part used for ...
 - i. Clove
 - ii. Sapindus
- c. Write down the uses of ...
 - i. Shilajit
 - ii. Jatamansi
- d. Mention the chemical structure of ...
 - i. Cinnamaldehyde
 - ii. α -pinene
- e. Write down the biological source of ...
 - i. Vinca
 - ii. Asafoetida

Group 'B' (Short Question)

Attempt any **EIGHT** questions. **[8×4=32]**

3. Differentiate between organized and unorganized crude drugs.
4. Define extraction. Write about maceration process.
5. Define adulteration. Explain factors leading to adulteration.
6. Explain the general method for preparation of churna.

Cont.

7. Write down the biological sources of panchaunle and yarshagumba.
8. Write down the chemical constituents and uses of castor and mentha.
9. Write down the general properties of alkaloids.
10. Differentiate between volatile oil and fixed oil.
11. Define herbarium. Write about the procedure of preparing herbarium species.
12. Write down the hydro-distillation method for extraction of crude drugs.

Group 'C' (Long Question)

Attempt any THREE questions.

[3×8=24]

13. Describe digitalis or belladonna.
14. Explain principle and procedure of thin layer chromatography.
15. Define tannin. Write down the classification of tannin.
16. Classify glycoside on the basis of chemical nature of aglycone moiety.
17. Describe agar or tragacanth.

Good Luck!