2024

3rd Semester Examination (CCFUP : NEP)

BOTANY

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Paper : MJ 4-T (Single Core Major)

(Economic Botany and Pharmacognosy)

Full Marks : 40 Time : Two Hours

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

Group - A

Answer any ***five*** questions : 2×5=10

1. Give the botanical name of neem and mention the family to which it belong.
2. What are the principal fibre-yielding plants of India?
3. What is the importance of serpentine root?
4. What do you mean by "Siddha" and "Unani"?
5. What are crude drugs? What is the source of digitoxin?
6. Write the differences between primary metabolites and secondary metabolites.

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7. Define polyherbal formulation.

8. Write the name of two adulterants of Alstonia.

Group - B

Answer any ***four*** questions : 5×4=20

9. Mention the botanical name, the family, the plant parts used and importance of red periwinkle.

10. How the colour, taste and odour of the drugs are used in the evaluation of organoleptic study?

11. Name the plant from which steroidal compounds are obtained. Name one alkaloid and saponin obtained from *Dioscorea*. Give their uses.

12. Define pharmacognosy and distinguish it from pharmacology. How the drugs are classified?

13. Give a short account of the methods of tea cultivation in India.

14. Briefly discuss the lemon grass extraction method.

Group - C

Answer any ***one*** question : 10×1=10

15. Write the importance of germplasm diversity. Discuss the crop domestication and loss of genetic diversity. 3+7

16. Differentiate primary and secondary metabolites. Describe different types of cultivation of rice in West Bengal. Which chemical substance is responsible for the aroma and pungency of ginger rhizome? Give an idea on the use of terpenoid and alkaloids against pathogenic microorganisms. 2+5+1+2

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