

(6 pages)

Reg. No. :

Code No. : 7407

Sub. Code : HBOE 11

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2015.

First Semester

Botany

Elective — MEDICINAL BOTANY AND
PHARMACOGNOSY

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Conservation of plants at their nature place refers to
 - (a) Ex-in situ
 - (b) Ex-situ
 - (c) In-situ
 - (d) BD conservation.

2. General Agreement of Tariffs and Trade (GATT) is one of the law of
 - (a) Indian Penal code
 - (b) International Penal code
 - (c) Biosafety
 - (d) Intellectual Property Rights.
3. One of the ingredients of Chayavanprash is
 - (a) Aloe
 - (b) Melia
 - (c) Bacopa
 - (d) Emblica.
4. The anthraquinone glycoside present in leaves of Aloe is
 - (a) Vinblastin
 - (b) Aloin
 - (c) Vincristine
 - (d) Azadirachtin.
5. Lemon grass oil is extracted from
 - (a) Eucalyptus
 - (b) Cymbopogon
 - (c) Rosa
 - (d) Santalum.

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6. The major alkaloid present in *Hyoscyamus* is
(a) L-atropine
(b) Tropane
(c) Scopolamine
(d) 1-Hyoscyamine.
7. The classification of crude drugs according to the part of the plant used is
(a) Chemical classification
(b) Alphabetical classification
(c) Morphological classification
(d) Taxonomical classification.
8. The leaf of the following is collected when it is sufficiently thick
(a) *Digitalis*
(b) *Aloe*
(c) *Vinca*
(d) *Senna*.
9. The inert material generally used in column chromatography is
(a) Agar (b) Silica gel
(c) Alcohol (d) Acetone.

10. The commonly employed technique for extracting active principle from the source is
(a) Collection
(b) Characterization
(c) Screening
(d) Extraction.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Brief the future prospects of medicinal crops.
Or
(b) Bring out the principles involved in Ayurveda and Siddha.
12. (a) Write the morphology, and how *Phyllanthus amarus* is utilized.

- Or
(b) Describe the morphology of useful parts and methods of cultivation of *Digitalis*.



13. (a) Explain the procedures for extraction of Eucalyptus oil.

Or

- (b) What do you mean by active principle? Give few examples.
14. (a) Enumerate the antimicrobial method of crude drug processing.

Or

- (b) Write the classification of crude drug based on morphology of the parts used.
15. (a) Explain the principles of chromatography.

Or

- (b) Explain the principle and application of mass spectrometer.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Mention in detail the reasons for conservation of medical plants. Specify its advantages.

Or

- (b) 'India is rich in medicinal plants wealth' — Support this statement with more evidences.

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17. (a) Write an essay on cultivation and utilization of Tylophora.

Or

- (b) Write an essay on utilization, cultivation, systematic position, habit and habitat of Azadirachta.
18. (a) Write the source of extraction of sandal oil and mention how it is extracted in detail.

Or

- (b) Write an essay on the extraction of any two alkaloids you have studied.
19. (a) Write an essay on the taxonomical classification of crude drug.

Or

- (b) Write an essay on collection of crude drugs.
20. (a) Explain the qualitative analysis of alkaloids, carbohydrates, saponins and volatile oils.

Or

- (b) Write an essay on Nuclear Magnetic Resonance (NMR) and its role in qualitative analysis of crude drugs.

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