

(6 pages)

Reg. No. :

Code No. : 8776

Sub. Code : KBOE 11

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2016.

First Semester

Botany

Elective – PHYTOCHEMISTRY

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Ayurvedic extracts called “quath” are prepared by the technique.
- (a) Maceration
 - (b) Infusion
 - (c) Digestion
 - (d) Decoction

2. If the therapeutic value lies in non-polar constituents which solvent used.
- (a) Polar solvent
 - (b) Non-polar solvent
 - (c) Any solvent
 - (d) Grade solvent
3. Molish test is used to identify.
- (a) Carbohydrates
 - (b) Tannins
 - (c) Saponin
 - (d) Glycoside
4. Isobole method is followed for to identify.
- (a) Attenuation
 - (b) Classification
 - (c) Synergy
 - (d) Screening
5. Alkaloids are ————— type of substances.
- (a) Acid
 - (b) Neutral
 - (c) Chemical
 - (d) Basic nitrogenous
6. Identify the drug which is not belonging to glycoside class
- (a) Digitalis
 - (b) Senna
 - (c) Nuxvomica
 - (d) Cascara



7. Glycosides are condensation products of
- (a) Sugar + aglycone
 - (b) Sugar + protein
 - (c) Protein + aglyco
 - (d) Fats + aglycone
8. Condensed tannins are called as
- (a) Hydrolysable tannins
 - (b) Non hydrolysable
 - (c) Pseudo tannins
 - (d) Proto tannins
9. Example of alcohol volatile oil
- (a) Orange peel (b) Lemon peel
 - (c) Cinnamon (d) Peppermint
10. The clove oil contains important terpenoid
- (a) Engenol (b) Anethol
 - (c) Menthol (d) Cineol

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Give a brief note on importance of Phytochemistry in Pharmaceutical industry.
- Or
- (b) Write a note on Percolation and Sonication.
12. (a) List down the chemical tests followed in preliminary phytochemical screening of plant.
- Or
- (b) Write an account on synergy and polyvalent action of phytomedicines.
13. (a) Write down the properties and medicinal values of alkaloids.
- Or
- (b) Give an account on properties, sources and therapeutic uses of anthocyanins.
14. (a) Describe the properties and toxicological effects of glycosides.
- Or
- (b) Explain the natural sources, properties and pharmacological effects of coumarins.



15. (a) Describe the extraction and utilization of Vetiver oil.

Or

- (b) Write down the medicinal uses of resins.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain the techniques involved in hot continuous extraction and superficial fluid extraction.

Or

- (b) Describe the parameters for selecting appropriate extraction method.

17. (a) Describe the methods for separation and isolation of constituents from plant extracts.

Or

- (b) Discuss the factors influencing secondary metabolites production.

18. (a) Write down the natural sources and therapeutic application of carotenoids.

Or

- (b) Describe the classification and properties of flavonoids.

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19. (a) Discuss the pharmacological and toxicological effects of Terpenes.

Or

- (b) Describe the natural sources, properties and toxicological effects of tannins.

20. (a) Discuss the properties extraction method and uses of Lemon grass oil.

Or

- (b) Write down the sources, properties, extraction methods of Eucalyptus oil.

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