

(6 pages)

Reg. No. :

Code No. : 9084

Sub. Code : PBOM 14

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2017.

First Semester

Botany

PHYTOCHEMISTRY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The aim of the pharmaceutical industry is to develop a
- (a) Novel drug
 - (b) Chemical drug
 - (c) Plant drug
 - (d) Synthetic drug

2. Phytochemistry is dealing with
- (a) Plant products
 - (b) Chemical products
 - (c) Animal products
 - (d) Physical products
3. Secondary metabolites are
- (a) Organic compounds
 - (b) Inorganic compounds
 - (c) Animal compounds
 - (d) Novel compounds
4. Humans use the secondary metabolites as a
- (a) Medicines
 - (b) Flavorings
 - (c) Recreational drugs
 - (d) All the above
5. Alkaloids are _____ type of substances.
- (a) Acid
 - (b) Neutral
 - (c) Chemical
 - (d) Basic nitrogenous
6. Glycosides are condensation products of
- (a) Sugar + aglycone
 - (b) Sugar + Protein
 - (c) Protein + Aglycone
 - (d) Fats + Aglycone

Page 2

Code No. : 9084



7. Tannins give colour with iron compound
(a) Pale yellow (b) Blue black
(c) Light pink (d) Orange
8. Glycyrrhizic acid on hydrolysis gives
(a) Glycyrrhetic acid
(b) Glycyrrhizin
(c) Liquiritin
(d) Isoliquiritin
9. Terpenes made up of
(a) Calciferene (b) Pseudopriene
(c) Neoprene (d) Isoprene
10. Example of alcohol volatile oil
(a) Peppermint
(b) Cinnamon
(c) Lemon peel
(d) Orange peel

Page 3

Code No. : 9084

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Comment on phytochemistry.
Or
(b) What is infusion? Explain it.
12. (a) Write notes on polyvalent action of
phytomedicines.
Or
(b) Give a concise account on synergy action in
phytochemistry.
13. (a) Describe the flavonoids.
Or
(b) Briefly explain the morphines.
14. (a) Give a concise account on properties of
glycosides.
Or
(b) Define terpenoids.

Page 4

Code No. : 9084

[P.T.O.]



15. (a) Explain the sources of volatile oil.

Or

- (b) List out 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) Write an essay on the importance of phytochemistry in pharmaceutical industry.

Or

- (b) Give a detailed account on method of preparation of plant extracts.

17. (a) Explain the classification of secondary metabolites.

Or

- (b) Enumerate the chemical test of preliminary phytochemical screening.

18. (a) Write an essay on classification of flavonoids.

Or

- (b) Give a detailed account on natural sources and therapeutic applications of flavonoids.

19. (a) Enumerate the classification of glycosides.

Or

- (b) Explain the natural sources of glycosides.

20. (a) Write an essay on volatile oils.

Or

- (b) Describe the method of extraction and utilization of sandal wood oil.

