



BRAINWARE UNIVERSITY



Term End Examination 2023-2024 Programme - B.Pharm-2019/B.Pharm-2020/B.Pharm-2021 Course Name - Pharmacognosy and Phytochemistry II Course Code - BP504T (Semester V)

Full Marks: 75 Time: 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

- Choose the correct alternative from the following:
- (i) Select the correct answer which is the basic building block of proteins.
 - a) Nucleotide

- c) Amino Acid
- (ii) Choose which is Mayer's reagent
 - a) Potassium mercuric- iodide solution
 - c) Potassium tri-iodide solution
- (iii) Expression method is used for
 - a) Rose oil
 - c) Lemon oil
- (iv) Stas-Otto method is useful isolation of
- - a) Isolation of alkaloids
 - c) Isolation of volatile oils
- (v) Caffeine is categorized as
 - a) True alkaloid
- c) Pseudoalkaloid
- (vi) Identify, flavonoids are derived from which amino acid
 - a) Phenylalanine
 - c) Lysine
- (vii) Atropine is an example of:
 - a) Purine alkaloid
 - c) Tropane alkaloid
- (viii) Millon\'s test is used to identify
- a) Carbohydrate
 - c) Tannins

- b) Carbohydrate
- d) Lipid
- b) Saturated aqueous solution of picric acid
- d) Potassium bismuth iodide solution
- b) Clove oil
- d) All of these
- b) Isolation of glycosides
- d) Isolation of Resins
- b) Proto alkaloid
- d) None of these
- b) Leucine
- d) Tryptophan
- b) Quinoline alkaloid
- d) Indole alkaloid
- b) Glycoside
- d) Protein

(ix) Label, Flavonoids are chemically	
a) Heterocyclic basic, nitrogenous compound c) Large steroidal lactone group (x) Mayer's reagent can be labeled as:	b) Polyphenolic compounds d) None of these
a) Potassium mercuric- iodide solution c) Potassium tri-iodide solution (xi) Predict the stationary phase for TLC	b) Saturated aqueous solution of picric acid d) Potassium bismuth iodide solution
 a) Calcium Carbonate c) Silicon Dioxide (xii) Identify the correct answer, the shikimic acid pabiosynthesis of: 	b) Zinc Oxide d) Silica gel G athway is a crucial route for the
a) Amino acids and fatty acids c) Aromatic amino acids and secondary metabolites (xiii) Identify the source of Vasicine:	b) Fatty acids and nucleotides d) Nucleotides and carbohydrates
a) Adhatoda vasica c) Atropa belladonna (xiv) Alkaloids are containing secondary metabol	b) Vinca rosea d) Rauwolfia serpentina lites
a) Oxygen c) Hydrogen (xv) In tracer selection isotope of C and H are used for	b) Carbon d) Nitrogen or:
a) Biological investigation c) Physical investigation (xvi) One example of crude drug belongs to Papavera	b) Chemical identification d) Biosynthetic investigation aceae family is:
a) Rauwolffa c) Opium (xvii) Identify the secondary metabolite	b) Vinca d) Liquorice
a) Alkaoids c) Fats (xviii) Express which of the following is a source of tro	b) Carbohydrates d) Protein pane alkaloid
a) Buck Wheatc) Belladona(xix) Recall, Vitali-Morin test is useful for	b) Digitalis d) Saffron
a) Caffeinec) Atropine(xx) Identify the odd one	b) Etoposide d) Curcumin
a) Squalene c) Zymosterol	b) Lanosterol d) Quercetin
Grou (Short Answer T	
2. Explain the microscopy of Ginger with neat labelled	d diagram (5)
 Define in details about the isolation and identification. Explain the isolation techniques of Caffeine from text. Describe the biological source, Chemical tests and use. Explain the biological source, Chemical constituents. Discuss the applications and advantages of Paper Chemical constituents. 	a leaves (5) uses Benzoin (5) and uses of Cinnamon and Opium (5)

Illustrate the packing method in Percolation.

8. Summarize the components of Microwave assisted extraction along with a schematic diagram. (5)

OR

Explain the factors affecting the Microwave Assisted Extraction. (5)

Group-C

(Long Answer Type Questions) 10 x 2=20

9. Describe the acetate mevalonate pathway. (10)

10. Explain by summarizing the choice of solvent and choice of extraction. (10)

OR

Summarize the principle, procedure of PC and TLC with detailed diagram. (10)