



## BRAINWARE UNIVERSITY

## Term End Examination 2022 Programme - B.Pharm-2018/B.Pharm-2019/B.Pharm-2020 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

- 1. Choose the correct alternative from the following:
  - (i) Which compounds act as precursors of indole alkaloids biosynthesis
    - a) Tryptophan

b) Tryptamine

c) Both of the above

- d) None of the above
- (ii) The pKa value of Reserpine is:
  - a) 2.47

b) 9.85

c) 6.6

- d) 7.4
- (iii) Dioscorea is the of several species of dioscorea
  - a) Dried rhizomes

b) Dried barks

c) Dried fruits

d) Dried leaves

- (iv) Mayer's reagent is:

  - a) Potassium mercuric- iodide solution
  - c) Potassium tri-iodide solution
- b) Saturated aqueous solution of picric acid
- d) Potassium bismuth iodide solution
- (v) Potassium-cadmium iodide reagent is also known as:
  - a) Krauts reagent
  - c) Bertrand's reagent

- b) Marme's reagent d) Scheibler's reagent
- (vi) Froehde's reagent is a mixture of:
  - a) 5mg molybdic acid in 5ml of pure conc.
  - H2SO4 c) 1gm of finely powdered ammonium
  - vanadate in 200gm of pure conc. H2SO4
- b) 10drops of conc. HNO3 and 100ml of water in 200ml of pure conc. H2SO4
- d) 1 volume of pure 30% H2O2 with 10 volumes of conc. H2SO4

- (vii) Conessine contains:
  - a) Indole ring
  - c) Steroidal moiety

- b) Imidazole ring
- d) Purine moiety
- (viii) Which one of the following is not a part of biogenetic investigation
  - a) Isolated organ or tissues
- b) Grafting method
- c) Isolated organ or tissues and Grafting method
- None of the above
- (ix) One example of antimalarial drug is:

a) Morphine	b) Ergotamine	
c) Caffeine	d) Quinine	
(x) The role of acetic acid in b	iogenetic pathways was discovered in:	
a) 1950	b) 1951	85
c) 1963	d) 1955	
(xi) Tracer technique utilize sterol	_ acetate to analyze between methyl sterol and dimethyl	3
a) C14	b) C10	
c) C15	d) C25	
(xii) The main part of opium us	sed mostly is	
a) Leaf	b) Fruit	
c) Capsule	d) Root	
(xiii) Caroteno d is a family of _	_isoprenoids	
a) C10	b) C20	
c) C30	d) C40	
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a) ACP and GGPP	b) IPP and DMAPP	
c) IPP and ACP	d) DMAPP and GGPP	
(xv) What is IPP		
a) Isopentenyl Pyrophospha	b) Isopentene Pyrophosphate	
c) Isopentenyl Phosphate	d) Isopentene Phosphate	
(xvi) Geranyl pyrophosphate is	the precursor of:	
a) C10Monoterpenes	b) C15Sesquiterpenes	99.1
c) C20Diterpenes	d) C25Sesterterpenes	
(xvii) GGPP is the biosynthethic	precursor of:	
a) Carotenoid	b) Atropine	
	d) Digoxin	
(xviii) Liquiritin is one type of:		
a) Flavonoid	b) Tannin	
c) Resin	2	
(xix) Direct injection method is	preferred for plants having:	
a) Green leaves	b) Woody stem	
	s used in metabolic pathway for the synthesis of	
	104 A 1055407 H 24 2051 (200 cores 1143 519)	
175		
c) isoprenoid compounds	d) None of these	
	Group-B	
		5 x 7=35
*	(SHOTE MISWELL TYPE EXCESSIONS)	5 K / - 33
2 Describe the hingenesis of Sa	nogening	(5)
		(5)
		(5)
	OR	10.00
Define metabolic pathways. I	escribe the biogenesis of alkaloids derived from	(5)
phenylalanine, tyrosine and r	elated amino acid.	
<ol><li>Explain the biogenesis of cho</li></ol>		(5)
1207 / UN 1703 .1 17	OR	/=1
the state of the s		(5)
b. Explain the therapeutic uses (		(5)
Explain the isolation and iden	The state of the s	(5)
	c) Caffeine (x) The role of acetic acid in b a) 1950 c) 1963 (xi) Tracer technique utilize	c) Caffeine (x) The role of acetic acid in biogenetic pathways was discovered in 1950 (c) 1963 (d) 1951 (d) 1955 (d) 1953 (d) 1955 (e) 1963 (d) 1955 (e) 1963 (d) 1955 (e) 1963 (e)

7. How are the properties of an ideal solvent designed?		(5)	
	OR	44.42	
	Express your understanding on spectroscopy.	(5)	
	8. Write a note on Phytoconstituents.		
	OR ·	(5)	
1	Write short note on analysis of Curcumin.	(5)	
	W K		
	Group-C		
	(Long Answer Type Questions)	10 x 2=2	
9.	Summarize the principle, procedure of PC and TLC with detailed diagram.	(10)	
	. Introduce terpenoids with focus on Menthol and Citral.  OR	(10)	
	Introduce alkaloids with focus on Caffeine and Quinine.	(10)	