MANIPAL ACADEMY OF HIGHER EDUCATION

END SEM THEORY EXAMINATION (Make-up), JANUARY 2023 9.00am to 12.00Noon, 24.012023

PHARMACOGNOSY AND PHYTOCHEMISTRY II PCO-BP504T

	BPharm: Semester V Marks: 75
Q No.	I MCQ 1MX20 = 20
1	Shikimic acid pathway is the key intermediate from carbohydrate for the biosynthesis of a) Phenyl propane derivatives b) Lipids c) Steroids d) Lactic acid
2	Major source of Citral is
	a) Lemon grass oil b) Mentha oil c) Clove oil d) Coriander oil
3	Following is the detector works on the principle of collection of ions a) Solid scintillation counter b) Geiger-Muller counter c) Liquid scintillation counters d) Multi-pixel photon counters
4	Sennoside A and B are dimeric glycosides of a) Aloe-emodin b) Rhein c) Emodin d) Chrysophanol
5	Following is a diferruloylmethane compound a) Quinine b) Reserpine c) Taxol d) Curcumin
6	Prephenic acid on dehydration and decorboxylation leads to the formation of a) Anthranillic acid b) Phosphoribosyl pyrophosphate c) Phenyl puruvic acid d) Tryptophan
7	Cyanogenetic glycosides are the derivatives of a) Acetonitrile b) Benzonitrile c) Mandelonitirile d) Carbonitrile
8	Rutin is a a) Alkaloid b) Volatile oil c) Flavonoid d) None of these
9	Menthol is a a) Monocyclic monoterpene alcohol b) Monocyclic diterpene alcohol c) Monocyclic triterpene alcohol d) Monocyclic sesqiterpene alcohol
10	Isopentenyl pyrophosphate and its isomer Dimethylallyl pyrophosphate serves as the basis for the biosynthesis of

a) Volatile oils b) Steroids c) Carotenoid pigments d) All of these

11	Following is purely pathological resin
	a) Colophony b) Asafoetida c) Myrrh d) Benzoin
12	Following phytoconstituent is used as anticancer drug a) Forskolin b) Taxol c) Atropine d) Quinine
13	Chemically Caffeine is a) 1,2,7-trimethyl xanthine c) 1,4,7-trimethyl xanthine d) 1,5,7-trimethyl xanthine
14	Viblastine is obtained from a) Podophyllum hexandrum b) Taxus baccata c) Catharanthus roseous d) Curcuma longa
15	Flavonoids are derivatives of a) Benzo-α-pyrone b) Benzo-β-pyrone c) Benzo-γ-pyrone d) Benzo-δ-pyrone
16	Enterodiol and enterolactone can mimic some of the effects of estrogens. These terms are associated with following group of constituents a) Flavonoids b) Naphtaquinones c) Lignans d) Iridoids
17	D-Linalool is the chief constituent of the following drug a) Cassia b) Fennel c) Coriander d) Clove
18	Solubility of the sennoside is optimum in water missible organic solvents having water content a) 10% b) 20% c) 30% d) 40%
19	Following is a semisynthetic derivative of Podophyllotoxin a) Artisunate b) Etoposide c) Froskolin d) Vinblastine
20	IR spectra gives a conformational evidence of a) Number of carbon atoms b) Number of hydrogen atoms c) Functional groups d) Molecular weight

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END SEM THEORY EXAMINATION (Make-up), January 2023 9.00am to 12.00Noon, 24.012023

PHARMACOGNOSY AND PHYTOCHEMISTRY II PCO-BP504T BPharm Semester V

Marks: 75

LONG ANSWERS 2X10M = 20

- A. What are volatile oils? Describe the enfleurage, ecuelle and SCF extraction 1 methods (1+1+1+2)
 - Give the source, active constituents and uses of Clove and Fennel
- 2 Describe in detail the HPTLC and HPLC as a method for the separation and identification of phytoconstituents

SHORT ANSWERS 7X5M = 35

- 1 Explain the industrial production, estimation and utilization of Digitoxin
- 2 Give the Isoprenoid pathway and its significance
- 3 Give the biological source, identification test and utilization of a) Atropine b) Sennosides
- 4 Give an account of Phenyl propanoids and Flavonoids with their identification test (4+1)
- 5 Give the biological source, explain the isolation, identification and analysis of Quinine
- Explain Maceration method of extraction with its advantage, disadvantage and 6 factors influence the same
- 7 Give the biological source, method of preparation and uses of Benzoin