



BRAINWARE UNIVERSITY
Term End Examination 2020 - 21
Programme – Bachelor of Pharmacy
Course Name – Pharmacognosy and Phytochemistry II
Course Code - BP504T
Semester / Year - Semester V

Time allotted : 90 Minutes

Full Marks : 75

[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 75=75

1. (Answer any Seventy five)

(i) The role of acetic acid in biogenetic pathways was discovered in _____:

- | | |
|---------|---------|
| a) 1950 | b) 1951 |
| c) 1963 | d) 1955 |

(ii) _____ and _____ are the two chief intermediates that set the 'active isoprene' unit as the basic building block of isoprenoid compounds:

- | | |
|-----------------|-------------------|
| a) ACP and GGPP | b) IPP and DMAPP |
| c) IPP and ACP | d) DMAPP and GGPP |

(iii) Which one is odd:

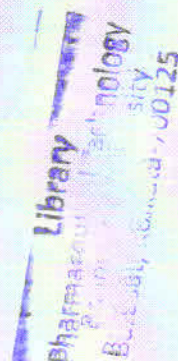
- | | |
|----------------|-----------------|
| a) Chlorophyll | b) Nucleic acid |
| c) Heme | d) Alkaloid |

(iv) Geranyl pyrophosphate is the precursor of _____:

- | | |
|---------------------|-----------------------|
| a) C10 Monoterpenes | b) C15 Sesquiterpenes |
| c) C20 Diterpenes | d) C25 Sesterterpenes |

(v) GGPP is the biosynthetic precursor of:

- | | |
|---------------|-------------|
| a) Carotenoid | b) Atropine |
| c) Caffeine | d) Digoxin |



(vi) Direct injection method is preferred for plants having _____:

- a) Green leaves
- b) Woody stem
- c) Hollow stem
- d) Root cap

(vii) Terpenes are prepared from:

- a) Simple sugars
- b) Mevalonic acid
- c) Amino acids
- d) None of these

(viii) Pilocarpine is:

- a) Solid in nature
- b) Semi-solid in nature
- c) Liquid in nature
- d) None of these

(ix) The pKa value of Reserpine is:

- a) 2.47
- b) 9.85
- c) 6.6
- d) 7.4

(x) Atropine on hydrolysis produces:

- a) Benzoic acid
- b) Tropic acid
- c) Cinnamic acid
- d) None of these

(xi) Mayer's reagent is:

- a) Potassium mercuric- iodide solution
- b) Saturated aqueous solution of picric acid
- c) Potassium tri-iodide solution
- d) Potassium bismuth iodide solution

(xii) Potassium-cadmium iodide reagent is also known as:

- a) Kraut's reagent
- b) Marne's reagent
- c) Bertrand's reagent
- d) Scheibler's reagent

(xiii) Stas-Otto method is for:

- a) Isolation of alkaloids
- b) Isolation of glycosides

c) Isolation of volatile oils

d) Isolation of Resins

(xiv) Conessine contains:

a) Indole ring

c) Steroidal moiety

b) Imidazole ring

d) Purine moiety

(xv) Atropine is an example of:

a) Purine alkaloid

c) Tropane alkaloid

b) Quinoline alkaloid

d) Indole alkaloid

(xvi) _____ and _____ families are free from alkaloids:

a) Apocynaceae, Rubiaceae

c) Rosaceae, Labiatae

b) Solanaceae, Papaveraceae

d) Piperaceae, Loganiaceae

(xvii) Colchicine is used as:

a) Expectorant

c) CNS-stimulant

b) Hypertensive

d) Anti-gout

(xviii) Periwinkle is another name of:

a) Opium

c) Vinca

b) Belladonna

d) Rauwolfia

(xix) Belladonna is belonging to family:

a) Apocynaceae

c) Taxaceae

b) Scrophulariaceae

d) Solanaceae

(xx) The main part of opium used mostly is:

a) Leaf

c) Capsule

b) Fruit

d) Root

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(xxi) The chemical structure of flavonoid is based on a:

- a) C-15 skeleton
- b) C-14 skeleton
- c) C-12 skeleton
- d) C-13 skeleton

(xxii) One example of steroid is:

- a) Rutin
- b) Prednisolone
- c) Digoxin
- d) Emetine

(xxiii) Manchurian liquorice is obtained from:

- a) Glycyrrhiza uralensis
- b) Glycyrrhiza glabra
- c) Glycyrrhiza acanthocarpa
- d) None of these

(xxiv) Flavonoids are chemically:

- a) Heterocyclic basic, nitrogenous compound
- b) Polyphenolic compounds
- c) Large steroidal lactone group
- d) None of these

(xxv) Cardiac glycosides act on:

- a) Lungs
- b) Brain
- c) Kidney
- d) Heart

(xxvi) Steroidal alkaloids are found in the plants of:

- a) Solanaceae family
- b) Leguminosae family
- c) Labiatae family
- d) Rutaceae family

(xxvii) Enfluerage method is applicable for:

- a) Clove oil
- b) Cinnamon oil
- c) Lemon oil
- d) Rose petal oil

(xxviii) Expression method is applied for:

- a) Rose oil
- b) Clove oil

c) Lemon oil

d) All of these

(xxix) Cornmint is an adulterant of:

a) Mentha oil

b) Clove oil

c) Cinnamon oil

d) None of these

(xxx) Fennel belongs to the family of:

a) Lauraceae

b) Umbelliferae

c) Gnetaceae

d) Labiatae

(xxxii) Fennel is the dried ripe fruit of:

a) Coriandrum sativum

b) Foeniculum vulgare

c) Elettaria cardamomum

d) Zingiber officinale

(xxxiii) Main chemical compound obtained from Dioscorea is:

a) Diosgenin

b) Digitoxigenin

c) Quinine

d) Brucine

(xxxiii) Which of the following is not a true alkaloid:

a) Conessine

b) Vinblastine

c) Emetine

d) Reserpine

(xxxiv) Which of the following drug is cultivated under strict control of Narcotics:

a) Agar

b) Rauwolfia

c) Vinca

d) Opium

(xxxv) One widely used drug for hypertension is:

a) Rauwolfia

b) Tulsi

c) Ipecac

d) Opium

c) Lemon oil

d) All of these

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(xxxvi) Vinca alkaloids belong to class of:

- a) True alkaloids
- b) Pseudo alkaloids
- c) Proto alkaloids
- d) None of these

(xxxvii) Biological source of pale catechu is:

- a) Uncaria gambier
- b) Hyoscyamus niger
- c) Papaver album
- d) Ephedra sinica

(xxxviii) The main constituents in catechu are:

- a) Tannins
- b) Glycosides
- c) Alkaloids
- d) Volatile oils

(xxxix) Guggul is obtained from:

- a) Gossypium sp.
- b) Commiphora sp.
- c) Geladium sp.
- d) Pinus sp.

(xl) Benzoin are basically:

- a) Resins
- b) Tannins
- c) Oleo-gum-resins
- d) Fat and waxes

(xli) Myrrh is:

- a) Oleo-gum-resin
- b) Tannin
- c) Alkaloid
- d) Glycoside

(xlii) Dried ginger is commonly known as:

- a) Sonth
- b) Garlic
- c) Foxglove
- d) Pepper

(xliii) Asafoetida is adulterated with:

- a) Gum arabic
- b) Arabian myrrh

c) Spent ginger

d) Saw dust

(xlv) Borntrager's test is applicable for:

a) Anthraquinone glycoside

b) Cardiac glycoside

c) Saponin glycoside

d) Flavonoid glycoside

(xlv) Senna leaflets are differentiated from its allied species on the basis of:

a) Colour

b) Shape

c) Taste

d) Odour

(xlv) Alexandrian senna is:

a) Leaves

b) Bulb

c) Flowers

d) Leaflets

(xlvii) Bitter almond oil contains:

a) Benzaldehyde

b) Cinnamaldehyde

c) Formaldehyde

d) None of these

(xlviii) Irridoids are the large group of:

a) Monoterpenoids

b) Sesquiterpenoids

c) Diterpenoids

d) None of these

(xlix) Taxus is the dried _____ of Taxus baccata:

a) Roots

b) Rhizomes

c) Leaves

d) Stems

(l) Artemisia is:

a) An unexpanded flower-head

b) Unripen fruit

c) Immature flower bud

d) None of these

(li) The main constituent of *Taxus* is:

- a) Taxol
- b) Santonin
- c) Gentiopicrosin
- d) Amygdalin

(lii) Lycopene is present in:

- a) Eggplant
- b) Tomato
- c) Broccoli
- d) Carrot

(liii) A toxic alkaloid present in *taxus* is:

- a) Taxine
- b) Cephalomannine
- c) Taxol
- d) Baccatin-III

(liv) The molecular weight of menthol is:

- a) 154
- b) 162
- c) 156
- d) 178

(lv) Podophyllotoxin is a natural product isolated from:

- a) *Podophyllum emodi*
- b) *Curcuma longa*
- c) *Cinchona officinalis*
- d) *Atropa belladonna*

(lvi) Curcumin is a/an:

- a) Diarylheptanoid
- b) Xanthine alkaloid
- c) Oleanolic acid
- d) Bioflavonoid

(lvii) Rutin is _____ in colour:

- a) Red
- b) Blue
- c) Violet
- d) Yellow

(lviii) Caffeine can be identified by:

- a) Erythroquinine test
- b) Vitali-Morin test

Murexide test

d) Thalleioquin test

c) Forskolin is obtained from the plant belonging to the family of:

a) Unbellifereae

b) Labiatae

c) Rutaceae

d) Graminae

ix) Diogenin is used as the precursor of:

a) Volatile compounds

b) Steroidal compounds

c) Alkaloidal compounds

d) None of these

xi) Digoxin is a:

a) Saponin glycoside

b) Cardiac glycoside

c) Purgative glycoside

d) Anthraquinone glycoside

xii) Digoxin shows _____ inotropic and _____ chronotropic activity:

a) Positive, negative

b) Negative, negative

c) Positive, positive

d) Negative, positive

xiii) Vincristine is included in the _____ chemotherapy regimen for treating non-Hodgkin's lymphoma.

a) CHOP

b) DICE

c) EC

d) DT-PACE

xiv) ABVD stands for:

a) Adriamycin, bleomycin, vinblastine and dacarbazine

b) Adrismycin, bleomycin, vincristine, doxorubicin

c) Artemisinin, bleomycin, vinblastine and dacarbazine

d) Artemisinin, bleomycin, vincristine and dacarbazine

xv) Estimation of Forskolin by HPLC is done at _____ wavelength:

a) 220nm

b) 500nm

c) 495nm

d) 254nm

(lxvi) The full form of UAE is:

a) Ultrasonic Assisted Extraction

b) Ultrasound Assisted Extraction

c) Ultraviolet Assisted Extraction

d) Ultrasound Associated Extraction

(lxvii) In IR spectrum, the range of the near region is:

a) 400-20cm⁻¹

b) 4000-400cm⁻¹

c) 1250-4000cm⁻¹

d) None of these

(lxviii) The word 'maceration' denotes:

a) Hardening

b) Softening

c) Stiffening

d) Toughening

(lxix) Percolation is also termed as:

a) Maceration

b) Lixivation

c) Extraction

d) Digestion

(lxx) An example of supercritical fluid used in extraction is:

a) Carbon dioxide

b) Benzene

c) Chloroform

d) Petroleum ether

(lxxi) _____ is a method for preparing tinctures from organized drugs:

a) Simple Maceration

b) Decoction

c) Percolation

d) Intermittent percolation

(lxxii) GLC is used to examine:

a) Alkaloids of opium

b) Volatile oils

c) Plant acids

d) All of these

xxiii) The UV range of Carotene is:

- a) 400-500
- b) 425-500
- c) 275-330
- d) 250-275

(lxxiv) Drug extraction process is not influenced by:

- a) Gravitation
- b) Osmosis
- c) Capillarity
- d) None of these

(lxxv) _____ is mainly used for the extraction of coumarins and fatty acids:

- a) Ether
- b) Dichloromethanol
- c) Water
- d) Chloroform