



## BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme – Bachelor of Pharmacy

Course Name – Pharmacognosy and Phytochemistry I

Course Code - BP405T

( Semester IV )

Time allotted : 1 Hrs.30 Min.

Full Marks : 75

[The figure in the margin indicates full marks.]

### Group-A

(Multiple Choice Type Question)

1 x 75=75

Choose the correct alternative from the following :

(1) \_\_\_\_\_ is obtained from Verongia Spengeli ( a yellow sponge)

- |                 |            |
|-----------------|------------|
| a) Aplysinopsin | b) Thelpin |
| c) Laminine     | d) Ara-C   |

(2) Vinblastine is the alkaloid obtained from

- |              |          |
|--------------|----------|
| a) Rauwolfia | b) Vinca |
| c) Cinnamon  | d) Tulsi |

(3) The term 'Pharmacognosy' was coined by

- |            |               |
|------------|---------------|
| a) Galen   | b) Hipocrates |
| c) Seydler | d) Aristotle  |

(4) Kaempferol is an example of

- |             |              |
|-------------|--------------|
| a) Alkaloid | b) Tannin    |
| c) Resin    | d) Flavonoid |

(5) An example of dried latex is

- |          |            |
|----------|------------|
| a) Opium | b) Aloe    |
| c) Honey | d) Beeswax |

(6) Vasopressin is used in

- |                       |                 |
|-----------------------|-----------------|
| a) Diabetes mellitus  | b) Peptic ulcer |
| c) Diabetes insipidus | d) Anaemia      |

(7) Digoxin is obtained from

- |            |              |
|------------|--------------|
| a) Aloe    | b) Senna     |
| c) Rhubarb | d) Digitalis |

(8) Ipecacuanha is an example of

- a) Carminative  
c) Expectorant
- b) Emetics  
d) Bitters
- (9) The main constituents of Calamine are  
a) Zinc oxide and Ferric oxide  
c) Calcium and magnesium carbonate
- b) Aluminium phyllosilicate  
d) Aluminium silicate
- (10) \_\_\_\_\_ is the average number of palisade cells present below each epidermal cell  
a) Palisade ratio  
c) Vein-islet number
- b) Stomatal index  
d) Stomatal number
- (11) Kainic acid is obtained from  
a) Digenea complex  
c) Flustra foliaceae
- b) Chondria armata  
d) Verongia archery
- (12) Which part of Nux-vomica is used as an important source of crude drug  
a) Seed  
c) Flower
- b) Bark  
d) Fruit
- (13) Lignified trichome is present in  
a) Vasaka  
c) Digitalis
- b) Nux-vomica  
d) Betel
- (14) Kaolin is made of  
a) Ferrous silicate  
c) Manganese silicate
- b) Cuprous silicate  
d) Aluminium silicate
- (15) Senna belongs to the family of  
a) a. Leguminosae  
c) c. Papavaraceae
- b) b. Compositae  
d) d. Rutaceae
- (16) Which of the following is not the vegetable product  
a) Starch  
c) Castor oil
- b) Honey  
d) Acacia
- (17) Biological evaluation is done on the basis of  
a) Transverse section study  
c) Colour and size
- b) Chemical constituents  
d) Therapeutic activity
- (18) Which one of the following does not belong to chemical class  
a) Alkaloids  
c) Tannins
- b) Glycosides  
d) Astringent
- (19) The use of medicinal plants was described by Ayurveda in the year of  
a) 3500-1500BC  
c) 460-370BC
- b) 384-322BC  
d) 1500-1000BC
- (20) Most of the umbelliferous fruits are used as  
a) Carminative  
c) Diuretics
- b) Cardiotonic  
d) Sedative
- (21) Control or management of an undesired animal or plant species is termed as  
a) Pest management  
c) Soil management
- b) Environmental management  
d) None of these
- (22) Warfarin is an example of  
a) Rodenticide  
c) Ascaricide
- b) Insecticide  
d) Fungicide

- (23) For the synthesis of various compounds, plants need
- a) 20 nutrient elements
  - b) 21 nutrient elements
  - c) 16 nutrient elements
  - d) 15 nutrient elements
- (24) The most common cryopreservation technique involves the use of \_\_\_\_\_ -196° C temperature
- a) Over solid carbon dioxide
  - b) Vapour phase nitrogen
  - c) Liquid nitrogen
  - d) None of these
- (25) Which of the following drug is cultivated under strict control of Narcotics
- a) Agar
  - b) Rauwolfia
  - c) Nux-vomica
  - d) Opium
- (26) Kinetin is a
- a) Natural Auxin
  - b) Synthetic Auxin
  - c) Natural Cytokinin
  - d) Synthetic Cytokinin
- (27) Which plant growth regulator is obtained From *Gibberella fujikuroi*
- a) Auxins
  - b) Cytokinins
  - c) Gibberellins
  - d) Abscisic acid
- (28) In slow freezing method , the cooling rate is
- a) 0.4-4°C/min
  - b) 0.5-5°C/min
  - c) 0.6-6°C/min
  - d) 0.7-8°C/min
- (29) Colchicine is used to induce
- a) Mutation
  - b) Polyploidy
  - c) Diabetes
  - d) Hypertension
- (30) Which is the most commonly preferred gelling agent
- a) Agar
  - b) Alginic acid
  - c) Carboxymethyl cellulose
  - d) Carrageenan
- (31) Which of the following represents a test of alkaloids
- a) Borntrager's test
  - b) Gold Beater's test
  - c) Match stick test
  - d) Mayer's test
- (32) Ergotamine belongs to the class of
- a) Pyrrole alkaloids
  - b) Tropane alkaloids
  - c) Purine alkaloids
  - d) Indole alkaloids
- (33) Gold Beater's skin test is for
- a) Resin
  - b) Glycoside
  - c) Tannin
  - d) Volatile oil
- (34) Balsam is
- a) Volatile oil
  - b) Alkaloid
  - c) Oleo-gum-resin
  - d) Tannin
- (35) Digitalis is an example of
- a) Purgative glycoside
  - b) Bitter glycoside
  - c) Saponin glycoside
  - d) Cardiac glycoside
- (36) Shinoda test is applied for the identification of
- a) Alkaloid
  - b) Tannin
  - c) Volatile oil
  - d) Flavonoid
- (37) In glucoside, the glycone part is

- a) Rhamnose  
c) Fructose
- (38) Jalap is an example of  
a) Glycoresins  
c) Resin alcohols
- (39) Which of the following is not the true alkaloid  
a) Hyoscyamine  
c) Quinine
- (40) Tropane alkaloids possess  
a) Parasympatholytic activity  
c) Arthritic activity
- (41) In Ayurveda system of medicine, 'Kapha' means  
a) Air  
c) Bile
- (42) The father of Ayurveda is  
a) Hahnemann  
c) Shusruta
- (43) Most of the umbelliferous fruits contain  
a) Alkaloids  
c) Vitamins
- (44) Which one of the following is a pseudo alkaloid  
a) Strychnine  
c) Atropine
- (45) Senna contains  
a) Anthraquinone glycosides  
c) Phenol glycosides
- (46) Adenosine is an example of  
a) O-glycoside  
c) N-glycoside
- (47) Quercetin is an example of  
a) Resin  
c) Fixed oil
- (48) 'Vipaka' denotes  
a) The end product of digestion  
c) The end product of assimilation
- (49) The term 'Tannin' was first used by  
a) Seydler  
c) Hahnemann
- (50) The specific gravity of resins ranges from  
a) 0.7 to 1.11  
c) 0.8 to 1.32
- (51) Oleo-gum-resin is composed of  
a) Resin, Gum and Volatile oil  
c) Resin and Volatile oil
- b) Pentose  
d) Glucose
- b) Resenes  
d) Resin acids
- b) Mescaline  
d) Vinblastine
- b) Cardiac activity  
d) Diabetic activity
- b) Blood  
d) Phlegm
- b) Charaka  
d) Dravidian
- b) Resin  
d) Volatile oil
- b) Reserpine  
d) Caffeine
- b) Aldehyde glycosides  
d) Steroidal glycosides
- b) S-glycoside  
d) C-glycoside
- b) Volatile oil  
d) Flavonoid
- b) The byproduct of metabolism  
d) None of these
- b) Seguin  
d) Galen
- b) 0.9 to 1.25  
d) 0.5 to 1.21
- b) Resin and gum  
d) None of these

- (52) The main test for the presence of Anthraquinone glycoside is
- |                      |                       |
|----------------------|-----------------------|
| a) Borntrager's test | b) Wagner's test      |
| c) Van-urk test      | d) Dragendorff's test |
- (53) The main constituents present in aloe belongs to the group of
- |                    |                             |
|--------------------|-----------------------------|
| a) Proto alkaloids | b) Hydrolysable tannins     |
| c) Oleo-gum Resins | d) Anthraquinone glycosides |
- (54) Water and Steam distillation method is applied for the isolation of
- |                 |             |
|-----------------|-------------|
| a) Glycoside    | b) Tannin   |
| c) Volatile oil | d) Alkaloid |
- (55) The main constituent of Tragacanth is
- |              |                 |
|--------------|-----------------|
| a) Reserpine | b) Colchicine   |
| c) Brucine   | d) Tragacanthin |
- (56) Adulterant of honey can be detected by
- |                   |                    |
|-------------------|--------------------|
| a) Fehling's test | b) Benedict's test |
| c) Fieche's test  | d) Tollen's test   |
- (57) Papain is obtained from
- |                     |                      |
|---------------------|----------------------|
| a) Hyoscyamus niger | b) Atropa belladonna |
| c) Ephedra sinica   | d) Carica papaya     |
- (58) Urokinase is widely used for
- |               |                       |
|---------------|-----------------------|
| a) Rheumatism | b) Asthma             |
| c) Sedative   | d) Pulmonary embolism |
- (59) The main chemical constituent present in Beeswax is
- |                 |              |
|-----------------|--------------|
| a) Vincristine  | b) Myricin   |
| c) Withanolides | d) Ephedrine |
- (60) Wool fat is obtained from which gland of sheep
- |              |              |
|--------------|--------------|
| a) Endocrine | b) Sebaceous |
| c) Pituitary | d) Thyroid   |
- (61) Hemp is obtained from
- |                    |                    |
|--------------------|--------------------|
| a) Cannabis sativa | b) Styrax benzoin  |
| c) Citrus lemon    | d) Mentha piperata |
- (62) Cannabis belongs to the family of
- |                  |                |
|------------------|----------------|
| a) Loganiaceae   | b) Labiatae    |
| c) Cannabinaceae | d) Leguminosae |
- (63) An example of polysaccharide is
- |             |              |
|-------------|--------------|
| a) Glucose  | b) Fructose  |
| c) Rhamnose | d) Cellulose |
- (64) Ricinus communis belongs to which family
- |                 |                  |
|-----------------|------------------|
| a) Apocyanaceae | b) Leguminosae   |
| c) Labiatae     | d) Euphorbiaceae |
- (65) Peptide bond is present in
- |                 |               |
|-----------------|---------------|
| a) Carbohydrate | b) Protein    |
| c) Lipid        | d) Nucleotide |
- (66) Marijuana is biologically obtained from
- |                   |                     |
|-------------------|---------------------|
| a) Plantago ovata | b) Ricinus communis |
|-------------------|---------------------|

- c) *Digitalis purpurea*  
d) *Cannabis sativa*
- (67) The chemical constituent present in Nutmeg is  
a) Ricinoleic acid  
b) Quinine  
c) Colchicine  
d) Myristicin
- (68) The major hallucinogenic principle in mescal button is  
a) Cannabidiol  
b) Mescaline  
c) Safrole  
d) Elemicin
- (69) Which of the following represents the suitable example of secondary plant metabolites  
a) Carbohydrates  
b) Proteins  
c) DNA  
d) Alkaloids
- (70) Which of the following is not an vegetative fibre  
a) Cotton  
b) Jute  
c) Flax  
d) Silk
- (71) In jute, the percentage of cellulose ranging from  
a) 50-53%  
b) 20-23%  
c) 60-63%  
d) 40-43%
- (72) Pollen is an  
a) Inhalant allergen  
b) Injectant allergen  
c) Infectant allergen  
d) Ingestant allergen
- (73) Proteins are composed of  
a) Amino acids  
b) Sugars  
c) Fatty acids  
d) None of these
- (74) Chaulmoogra oil is obtained from  
a) *Emblica officinalis*  
b) *Carica papaya*  
c) *Piper nigrum*  
d) *Hydnocarpus kurzii*
- (75) Streptokinase is a  
a) Proteolytic enzyme  
b) Mucolytic enzyme  
c) Thrombolytic enzyme  
d) None of these