



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Pharm-2020/B.Pharm-2021/B.Pharm-2022

Course Name – Pharmacognosy and Phytochemistry I

Course Code - BP405T

(Semester IV)

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) Who is the father of medicine?
a) Charak
b) Aristotle
c) Hipocrates
d) Hooker
- (ii) Gibberellin can be identified as a
a) Plant hormone
b) Microorganism
c) Marine product
d) Alkaloid
- (iii) Select the correct form of the adulteration in the statement -Mixing papaya seed powder in black pepper powder.
a) direct adulteration
b) indirect adulteration
c) substitution
d) all of these
- (iv) In which year penicillin was first discovered?
a) 1934
b) 1918
c) 1928
d) 1954
- (v) Who discovered the first isolation of alkaloid?
a) Carl L.
b) Hanniman
c) Sydlar
d) Friedrich sertuerner
- (vi) Nicotine is identified as a
a) fixed oil
b) carbohydrate
c) glycoside
d) alkaloid
- (vii) Select the correct source of gelatin from the following.
a) microorganism
b) mineral
c) plant
d) animal
- (viii) Write an example of an anticancer substance from marine source.
a) Saxitoxin
b) Ara C
c) Octopamine
d) Ara A
- (ix) Choose the correct pharmacological activity of cephalosporin from the following.

- a) Anticancer
c) Antimicrobial
- b) Cardio vascular
d) Antispasmodic
- (x) Choose the correct one- Which one of the following is not an example of natural teratogens?
- a) Ergotamine
c) Tobacco
- b) Nutmeg
d) Marijuana
- (xi) Choose a marine anti-inflammatory drug from the following.
- a) Saxitoxin
c) Ara A
- b) Chepalosporin
d) Manolide
- (xii) Determine the sets of chromosomes in a triploid.
- a) 1 X
c) 3X
- b) 2 X
d) 4X
- (xiii) Select the correct answer: The natural cytokinin ____.
- a) Kinetin
c) Creatin
- b) Zeatin
d) None of these
- (xiv) Identify the correct answer: The formation of embryoids from the pollen grains in the tissue culture medium is due to _____.
- a) Organogenesis
c) Double fertilization
- b) Cellular totipotency
d) Test tube culture
- (xv) Identifying rapid cell division occurs in
- a) Lag Phase
c) Linear Phase
- b) Log Phase
d) Stationary phase
- (xvi) Identify which one of the following is the common source of carbon.
- a) Thiamine
c) Iodine
- b) Nitrogen
d) Sucrose
- (xvii) Select the correct answer: Thiamine is ____.
- a) Vitamin A
c) Vitamin B2
- b) Vitamin B1
d) Vitamin C
- (xviii) Identify the correct answer- The precursor of indole-3-acetic acid
- a) Methionine
c) Glycine
- b) Isopentynyl pyrophosphate
d) Tryptophan
- (xix) Which one of the following is trisaccharide.
- a) Trehalose
c) Raffinose
- b) Lactose
d) Stachyose
- (xx) Which of the following is not an unorganized drug?
- a) Acacia
c) Opium
- b) Senna
d) Beeswax

Group-B

(Short Answer Type Questions)

5 x 7=35

2. Write the classification and properties of resins. (5)
3. Define primary metabolites and secondary metabolites with example. (5)
4. Explain the steps involved in plant tissue culture. (5)
5. Define Pharmacognosy along with different historical period of Pharmacognosy. (5)
6. Explain mutations and classify them. (5)
7. Classify carbohydrates by mentioning their definition and example. (5)

OR

- Contrast a note on some identification test of cotton fibers and their description. (5)
8. Summarize the classification of pharmaceutical aids along with different identification test for honey. (5)

OR

Explain the chemical tests to determine presence of tannins in an unknown extract. (5)

Group-C

(Long Answer Type Questions)

10 x 2=20

9. Describe adulteration of crude drug including details about the condition and classification of adulteration. (10)
10. Dissect the theories of homeopathic system of medicine. (10)

OR

Infer the theories on Chinese system and Ayurvedic system of medicine (10)

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