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Pharmaceutical Technology
Brainware University
Barasat, Kolkata-700125

BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Pharm-2020/B.Pharm-2021/B.Pharm-2023/B.Pharm-2024

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) Select the correct option: Quinine is obtained from

- | | |
|-------------|--------------|
| a) Cinchona | b) Artemisia |
| c) Thevatia | d) Digitalis |

(ii) Select the correct answer from the following- Kaempferol is an example of

- | | |
|-------------|--------------|
| a) alkaloid | b) tannin |
| c) resin | d) flavanoid |

(iii) Identify the odd one based on collective parts.

- | | |
|--------------|--------------|
| a) Thevatia | b) Digitalis |
| c) Nuxvomica | d) Senna |

(iv) Callus culture indicates - Select the correct answer from the following.

- | | |
|-----------------------|-----------------------|
| a) Solid culture | b) Suspension culture |
| c) Photolytic culture | d) None of these |

(v) Identify the biological source of dextrin from the following.

- | | |
|------------|-----------|
| a) catechu | b) fennel |
| c) honey | d) agar |

(vi) Which of the following is applicable as nature of Myrrh?

- | | |
|--------------|----------|
| a) gum | b) juice |
| c) exhudates | d) latex |

(vii) Select the correct state of organized crude drugs.

- | | |
|----------------|--------------|
| a) liquid | b) semisolid |
| c) fluorescent | d) solid |

(viii) Identify arabinos containing drug from the following.

- | | |
|-----------|---------------|
| a) acacia | b) tragacanth |
| c) agar | d) asafoetida |

- (ix) What is the family of *Ananas comosus*?
- a) liliaceae
c) liguminoaseae
- b) Bromeliaceae
d) apocynaceae
- (x) Select an example of vegetative propagation from the following.
- a) hibiscus
c) maize
- b) opium
d) coriander
- (xi) Choose the correct one from the following- Dibbling method applied for
- a) seed propagation
c) vegetative propagation
- b) scatter propagation
d) all of them
- (xii) In which year isolation of reserpine was first observed?
- a) 1952
c) 1958
- b) 1944
d) 1977
- (xiii) Select the active constituents of *diascoria* from the following.
- a) steroidal hormone
c) saponin
- b) alkaloid
d) tannin
- (xiv) Eugenol is identified as a
- a) fixed oil
c) volatile oil
- b) mineral product
d) alkaloid
- (xv) Choose the identification colour develops by phloroglucinol in lignified cell.
- a) pink
c) red
- b) blue
d) black
- (xvi) Which of the following is not in the classification of chemical fertilizer?
- a) urea
c) NaCl
- b) ryzobium
d) potassium
- (xvii) Choose the test from the following which is applied for evaluation of lipid.
- a) Salkowski test
c) Killerkilani
- b) Biuret
d) Fier test
- (xviii) Choose the correct one- Which one of the following is not an example of natural teratogens?
- a) Ergotamine
c) Tobacco
- b) Nutmeg
d) Marijuana
- (xix) Write an example of regenerated fiber from the following.
- a) Cotton
c) Hemp
- b) Flax
d) Rayon
- (xx) Select the correct answer: secondary polyploidy is also known as ____.
- a) Autopolyploidy
c) Allopolyploidy
- b) Polyploidy
d) Aneuploidy

Group-B

(Short Answer Type Questions)

 $5 \times 7 = 35$

2. What are the advantages of plant tissue culture or micro-propagation? (5)
3. Write a detail note on cryopreservation. (5)
4. Define dried latex along with the importance of pharmacognosy. (5)
5. Explain the principle of Siddha medicine system. (5)
6. Describe a detail note on Auxin along with their structure and function. (5)
7. Explain a short note on fennel. (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 of honey. (5)

OR

Summarize a note on the classification of carbohydrates with examples. (5)

Group-C

(Long Answer Type Questions)

10 x 2=20

9. Describe about different scope of pharmacognosy. (10)
10. Contrast a note on bees wax. (10)

OR

Contrast a note on wool fat.

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(10)
