



## BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Pharm-2019/B.Pharm-2020/B.Pharm-2021

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) Phloroglucinol solution is responsible for the development of colour formation of lignified cell

- a) pink
- b) blue
- c) red
- d) black

(ii) Which is the most commonly preferred gelling agent

- a) Agar
- b) Alginic acid
- c) Carboxymethyl cellulose
- d) Carrageenan

(iii) Choose of the method, is a mechanical method of pest control

- a) Heat treatment
- b) insecticide
- c) urea spreading
- d) biogas spraying

(iv) In seed propagation plant can be treated with various hormone - choose the except one.

- a) gibberelins
- b) cytokinin
- c) ethylene
- d) HCG

(v) Acacia is a example of

- a) gellifying agent
- b) binding agent
- c) coating agent
- d) all of above

(vi) Select the enzym, is isolated from silk worm

- a) papain
- b) seratiopeptidase
- c) bromelin
- d) urokinase

(vii) Give an example of an anticancer substance from marine source

- a) saxitoxin
- b) ara C
- c) Octopamine
- d) Ara A

(viii) Kaempferol is an example of

- a) Alkaloid
- b) tannin
- c) resin
- d) flavanoid

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- (ix) Callus culture indicates
- a) Solid culture  
b) suspension culture  
c) Photolytic culture  
d) None of above
- (x) Identify the plant with lignified trichomes
- a) Vasaka  
b) Nuxvomica  
c) digitalis  
d) catechu
- (xi) Immobilize cell culture is also describe as-
- a) hairyroot culture  
b) callus culture  
c) Photolytic culture  
d) stem root culture
- (xii) Gibberelin can be identify as a
- a) Plant hormone  
b) microorganism  
c) marine product  
d) all of above
- (xiii) Antigens are related with which of the drug classification
- a) chemical  
b) alphabetical  
c) taxonomical  
d) serotaxonomical
- (xiv) Adulterant of honey can be predicted by
- a) molish test  
b) mayers test  
c) fieche\'s test  
d) Tollen\'s test
- (xv) Urokinase is observed effective in the treatment of
- a) Rheumatism  
b) sedative  
c) asthma  
d) Pulmonary embolism
- (xvi) Choose, dibbling method used for
- a) seed propagation  
b) scatter propagation  
c) vegetative propagation  
d) all of above
- (xvii) Show from the gland of sheep wool fat is obtained
- a) endocrine  
b) Sebaceous  
c) thyroid  
d) pituitary
- (xviii) Mixing papaya seed powder in black pepper powder is
- a) direct adulteration  
b) indirect adulteration  
c) substitution  
d) all of above
- (xix) Materia Medica was introduce by
- a) Sydler  
b) J A schmidt  
c) Carl L.  
d) Hanniman
- (xx) Identify from the following, is not a natural sources drug
- a) digitoxin  
b) reserpine  
c) citric acid  
d) Citral

### Group-B

(Short Answer Type Questions)

5 x 7=35

- Describe in details about harvesting of crude drug (5)
- Define tissue culture, associate with the advantages. (5)
- Discuss about the definition of crude drug along with Differentiation of organized and unorganized crude drug with example (5)
- Describe about enzymes with application and classification. (5)
- Write the properties and uses of Volatile Oil (5)
- Contrast on anticancer agent of marine source concluding the definition of marine drugs ? (5)

OR

- Evaluate fibers focusing on some Identification test & example. (5)
- Categorize Glycosides on the basis of properties of chemical moiety present. (5)

OR

- Draw the diagram of growth pattern of suspension culture with proper explanation. (5)

**Group-C**  
(Long Answer Type Questions)

10 x 2=20

9. Describe in a detailed note about natural allergens , give example. (10)
10. Write a descriptive note on Technique of Cryopreservation with suitable schematic diagram. (10)

**OR**

Compare different types of crude drug by contrasting dried latex, juice, gum resin and oleo gum resin with example. (10)

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