

Total No. of printed pages = 4

PY 132806

Roll No. of candidate

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2020

B.Pharm. 8th Semester End-Term Examination

**PHARMACOGNOSY — VI (INDUSTRIAL
PHARMACOGNOSY)**

Full Marks – 50

Time – Two hours

The figures in the margin indicate full marks
for the questions.

SECTION A

1. Multiple Choice Questions (any *five*). (5 × 1 = 5)
- (i) Excess of fluoride in drinking water causes
 - (a) Lung disease
 - (b) Intestinal infection
 - (c) Flurosis
 - (d) None of these
 - (ii) Problem of solid waste disposal can be reduced through
 - (a) Recycling
 - (b) Lesser pollution
 - (c) More timber
 - (d) Population control

[Turn over

- (iii) What are the harmful effects of air pollution on the environment?
- (a) Acid rain
 - (b) Greenhouse effect
 - (c) Both (a) and (b)
 - (d) None of them
- (iv) Natural antioxidant used in herbal cosmetics
- (a) Amine (b) Phenol
 - (c) Quinone (d) Tocopherol
- (v) The diseases caused by drinking polluted water containing sewage
- (a) Cholera and typhoid
 - (b) Malaria and fever
 - (c) Anemia and pain
 - (d) None of them
- (vi) The major pollutant of air
- (a) Sulphur dioxide
 - (b) Carbon monoxide
 - (c) Nitrogen oxide
 - (d) All of them
- (vii) Hormone pair required for a callus to differentiate are
- (a) Auxin and cytokinin
 - (b) Auxin and ethylene
 - (c) Auxin and abscisic acid
 - (d) Cytokinin and gibberilin
- (viii) What type of chemical constituent is Diosgenin
- (a) Steroidal sapogenin
 - (b) Alkaloids
 - (c) Terpenes
 - (d) Coumarins

- (ix) Which solvent is used to isolate atropine from belladonna leaves?
- (a) Acetone
 - (b) Alcohol-95%
 - (c) Benzene
 - (d) Ether
- (x) Lipstick is a cosmetic preparation produced from
- (a) Wax
 - (b) Catechol
 - (c) Chlorophyll
 - (d) None of above

SECTION B

Answer any three.

(3 × 15 = 45)

2. Give an account on Classification of medicinal plant based industry. Describe in detail about the production and utilization of Quinine and Tropane alkaloid. (3 + 6 + 6 = 15)
3. Define and classify plant tissue culture. Write an account on the nutritional requirements for the in vitro growth of plant tissue. Write down the application of plant tissue culture in the pharmaceutical field. (2 + 3 + 5 + 5 = 15)
4. What do you mean by Acid deposition? Explain the different stages for global climate change. What are the different greenhouse gases? (3 + 8 + 4 = 15)

5. Define air pollution. Classify various sources of Air pollution. Write various measures to control air pollution. (2 + 3 + 10 = 15)
6. Define Water pollution. List out major sources of pollution of Water. How will you control the water Pollution? (5 + 10 = 15)
7. Write short notes on (any three) : (3 × 5 = 15)
 - (a) Callus culture and its application
 - (b) Herbs as health food
 - (c) Plant growth regulators used in tissue culture
 - (d) Integrated waste management
 - (e) Utilization of lemon grass oil, vetiver oil, eucalyptus oil, sandalwood oil and geranium oil.
8. What do you mean by herbal cosmetics? Give an account of raw materials used for preparation of herbal cosmetics (3 + 12 = 15)
9. What is chemotaxonomy? Explain about chemotaxonomic significance of flavonoids and alkaloids. (3 + 6 + 6 = 15)
10. Explain the terms Nutraceuticals and Cosmeceuticals. As per WHO what are the basic criteria should be present in health food? Give examples of some antioxidant and Vit. C containing health food. Differences between prebiotic and probiotic. Classify Herbal Cosmetics. (4 + 3 + 2 + 4 + 2 = 15)