

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm. Winter 2018-19 Examination

Semester: 6
Subject Code: 08101356
Subject Name: Applied Pharmacognosy

Date: 03/11/2018
Time: 10:00 am to 1:00 pm
Total Marks: 75

Instructions:

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each) (20)

1. Define alkaloids. Write physical and chemical properties of alkaloids. Explain different classification of alkaloids with examples.
2. Write biological source of Opium. Describe cultivation, collection and processing of Indian Opium.
3. Define Plant Tissue Culture. Explain in detail about different types of culture technique.

Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each) (35)

1. Define and classify Poisonous plants. Give details of any two poisonous plants.
2. Explain Life cycle of Ergot with diagram.
3. Describe morphology and microscopy of Vasaka with well labeled diagram.
4. Write in detail about applications of Plant Tissue Culture.
5. Write a pharmacognostic note on Antihypertensive drug of your syllabus.
6. Explain various categories of novel medicinal agents form marine source.
7. Give nutritional requirements for plant tissue culture.
8. Explain Protoplast culture technique in Plant tissue culture.
9. Enlist drugs belongs to Tropane alkaloids. Write about Datura in detail.

Q.3 Answer in short. (2 marks each) (20)

1. Explain following terms:
 - a. Callus
 - b. Explant
2. Give brief about Cryopreservation.
3. What is de-differentiation and re-differentiation?
4. Differentiate Rio Ipecac & Cartegena Ipecac.
5. Describe specific chemical test for
 - a. Atropine
 - b. Caffeine
6. Write biological source, family, chemical constituents and uses of drug commonly known as Ma-Haug.
7. Draw well labeled diagram of T.S. of Kurchi bark.
8. Write biological source, family, chemical constituents and uses of drug which is used to induce polyploidy.
9. Caffeine is pseudo alkaloid – Justify.
10. Write difference between Tobbaco and Indian Tobbaco.