***Question Bank***

**B.Pharm (7th-Sem) Pharmacognosy-IV (BOP-474 )**

**Unit-I**

*Short Question:*

**1**.Define true & proto alkaloids.

**2.**Discuss about the cultivation & collection of opium.

**3**.Explain the ergotamine & ergometrine.

**4**. Explain the quinine & quinidine.

**5.** Explain the vincristine & vinblastine.

**6.**Describe the Vitali- morin test & thailiqen test.

**7.** Explain van urk reagant.

*Long Question:*

1. Explain the classification of alkaloids.
2. Write down the biological source & chemical test of *rauwolfia.*
3. Write down the biological source , active constituents and uses of *ergot.*
4. Discuss the biological source , active constituents and uses of opium *.*
5. Write down the biological source & chemical test of *nux-vomica.*
6. Write down the biological source , active constituents and uses of *conchona..*
7. Discuss the biological source ,active constituents and uses of *areca.*
8. Give the microscopic characteristics of *vinca.*
9. Give the microscopic characteristics of *datura.*

**Unit-II**

*Short Question:*

1*.* Explain the solasodine.

2. Describe the murexide test.

3. Explain the veretrum viride.

4. Explain the purine alkaloid.

*Long Question:*

1. Explain the microscopic characteristics of *kurchi.*
2. Discuss the biological source & active constituents and uses of *Pilocarpus.*
3. Write down the biological source , active constituents and uses of *ephedra.*
4. Discuss the biological source & active constituents and uses of *colchicum.*
5. Write down the biological source , active constituents and uses of *withinia.*
6. Discuss in brief about *vasaka.*

**Unit-III**

*Short Question:*

1. Explain the utilization of Podophyllotoxins.

2. Describe the morphine.

3. Explain the role of codeine.

4. Describe the theaibane.

5. Describe the role of atropine.

*Long Question:*

1. Describe the utilization & production of tropane alkaloids.
2. Describe in brief about diosgenin.
3. Describe the utilization & production of quinoline alkaloids.
4. Discuss the extraction & isolation of isoquinoline alkaloids.
5. Describe the utilization & production of sennosides alkaloids.
6. Discuss the extraction & isolation of solasodine alkaloids.
7. Write a short note on Podophyllotoxins .

**Unit-IV**

*Short Question:*

1. Explain the micropropagation.

2. Describe the cryopreservation.

3. Explain the role of vitamines & hormones in plant tissue culture.

4. Discuss the protoplast culture.

5. Explain the macro & micronutrients in culture medium.

6. Discuss the suspension culture.

7. Explain the growth profile iof plant tissue culture.

*Long Question:*

1. Discuss the historical development of plant tissue culture.

2. Application of plant tissue culture in pharmacognosy.

1. Give an account of nutritional requirements, growth and maintenance of plant tissue culture.
2. Describe the factor affecting plant tissue culture.

**Unit-V**

*Short Question:*

1. Explain the principle of HPTLC.

2. Discuss the interaction of blood thinner & green vegetable.

3. Explain the herbal fingerprinting.

4. Discuss the derivitazation in HPTLC.

5. Discuss the interaction of tetracycline & milk.

6. Discuss the Pharmacodyanmic interaction.

7. Define the bioenhancer.

*Long Question:*

1.Describe the herbal fingerprinting using HPTLC.

2.Role of bioenhancing agent.

3.Describe piperine as bioenhacer phytoconstituents**.**

4.Discuss herbal drug interactions.

5. Describe chromatography and their application in evaluation of herbal drugs.