





(f) Mention the name of the alkaloid present in the leaves of papaya. Where from Trypsin obtained ?

(g) Name few compound synthesized in Shikimic acid Pathways.

(h) What do you mean by Uridylyl Transferases ?

(i) Mention the name of atleast four plant families contain Saponin glycosides.

(j) Which are the adulterated product of Senna ?

(k) Define the terms : Cathartics, Expectorant.

(l) Write down the biological source of cape aloe.

(m) Name few cytotoxic compound obtained from Marine source.

(n) Write details pharmacology of Cardiac glycosides.

(o) Mention the various aglycone moieties present in anthraquinone glycosides.

(p) Write down the uses of Strophanthus Seed.

(q) Define intracellular and extracellular enzyme with examples.

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(2)

2. Answer any *eight* questions from the following :  
8×5=40

(i) Discuss the cultivation and collection procedure of Senna leaf. 5

(ii) Write down the biological sources, preparation, uses of Diastase enzyme. 5

(iii) Give details of preparation as well as microscopy of Barbados aloe. 5

(iv) Enumerate the general biosynthetic pathway for the production of aromatic amino acids. Name the biosynthetic pathway for the production of Steroid glycoside. 4+1=5

(v) Write down the biological source of the following drugs :

Gentian, Papain, Cascara.

Write down the chemical constituents and uses of the following drugs :

Liquorice, Senega. 3+2=5

(vi) Explain the morphology and uses of Yam and Rhubarb. 2.5+2.5=5

(vii) What is the name of aglycone part of saponin glycoside ? Name some drugs uses as substitute of Dioscorea tuber. What are the bitter glycosides present in Chirata ?

1+2+2=5

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(3)

[Turn over



(viii) What happened if trypsin is added to the solution of milk ?  $1+1+3=5$

Mention the names of the pancreatin enzymes and write their functions.

(ix) What do you mean by Lenticels, Endosperm and Stoma ? Write down the synonym of Digitalis and Squil.  $3+2=5$

3. Answer any *three* from the following :

$3 \times 10 = 30$

(a) Classify glycoside with examples. Discuss details morphology and microscopy of Quassia wood.  $4+6=10$

(b) What do you mean by preliminary phytochemical screening ? How to estimate qualitatively the following metabolites : Saponin glycosides, Cardiac glycosides, Anthraquinone glycoside.

Write down the details isolation procedure of glycosides.  $2+6+2=10$

(c) Write a brief introduction of the poisonous plant in India. 10

(d) Discuss on novel medicinal compounds obtained from marine source. 10