

(Time: 2 Hours)

[Total Marks: 40]

Note : Q. 1 is compulsory.**Solve any four questions from remaining six**

Q. 1: State true or false and justify your answer

- Mucilages are produced by the process of gummosis
- Xanthan gum is obtained from stem cork cells
- Cocoa butter is obtained from animal origin
- Extractive values gives the content of active principles in the crude drugs
- Stomatal index show changes with the age of leaf
- Goldbeater skin test is used to check the presence of terpenoids
- Pyrethrum has anti-malarial action
- Inulin is useful for testing the renal efficiency

8

Q.2: a) Give biological source, preparation and chemical constituents of Guar-gum

4

b) Give an account on microbial bioburden and heavy metal analysis

4

Q. 3: a) Classify tannins with examples and write note on kino

4

b) Discuss lycopodium spore method

4

Q.4: a) Give the source, preparation constituents and uses of olive oil.

4

b) Write note on morphological evaluation.

4

Q. 5: a) Give detail account of Gelatin.

4

b) Discuss Allium species.

4

Q. 6: a) Write note on organic acids from natural sources.

4

b) Give an overview of any two waxes of animal origin.

4

Q. 7: Write short note on

8

a) Preparation and use of potato starch

b) Protein hydrolysates

c) Natural pesticides
