

**C.U.SHAH UNIVERSITY****Summer Examination-2022****Subject Name: Pharmacognosy and Phytochemistry II - Theory****Subject Code: BP504T****Branch: B.Pharm****Semester: 5****Date: 26/04/2022****Time: 11:00 To 02:00****Marks: 75**

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

**Q-1 Attempt the following questions: (20)**

- a) Write biological source, family and geographical source of Ruta.
- b) Write method of cultivation and collection Dioscorea
- c) Define Volatile oil. Write its uses in therapy
- d) What are the main constituents of Clove? Draw it chemical structure
- e) Write in brief about uses of Coriander
- f) Define tannins. Write its uses in therapy
- g) Write method of cultivation and collection of Pale catechu
- h) Write uses of resins in therapy.
- i) What are the main chemical constituents of Aloe?
- j) Write chemical test and uses of Artemisia.

**Attempt the following questions:****Q-2 Attempt any two of following : (2\*10 Marks = 20 Marks) (20)**

- A** Write biological source, chemical constituents, cultivation collection and chemical tests of Rauwolfia plant **10**
- B** Write a detailed pharmacognostic note on Glycyrrhiza and liquorice. **10**
- C** What do you understand by resins? Explain isolation and analysis of Podophyllotoxin and Curcumin **10**

**Q-3 Attempt any Seven of following : (7\*5 Marks = 35 Marks) (35)**

- A** What is Shikimic acid pathway? Draw its pathway. **5**
- B** Draw Acetate pathway. **5**
- C** Write synonym, biological source, chemical constituents and uses of Opium. **5**
- D** Write chemical test, uses and adulterants of asafoetida. **5**
- E** Write a method of isolation and analysis and identification tests of Citral **5**
- F** How the vinca alkaloids are isolated and estimated? **5**
- G** Write the importance of digoxin in the treatment of CVS diseases. How digoxin is isolated and estimated? **5**
- H** What are the merit and demerit of super critical fluid extraction? **5**
- I** What are the techniques for the isolation of phytoconstituents? **5**

