Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY
Winter Examination-2022

Subject Name: Pharmacognosy and Phytochemistry II – Theory
Subject Code: BP504T **Branch: B.Pharm**
Semester: 5 **Date: 24/11/2022** **Time: 02:30 To 05:30** **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) Tannins
b) Glycosides
c) Extraction
d) Isolation
e) Super Critical Fluid (SCF)
f) Terpenoids
g) Chemistry and sources of guggul
h) Catechu
i) Vincristine
j) Aloes

Q-2 **Attempt any two of following :** **(20)**

A	Explain Shikimic acid pathway with chemistry	**10**
B	Write a note on Opium	**10**
C	Give significance of HPTLC and GC in isolation, purification and identification of crude drugs.	**10**

Q-3 **Attempt any Seven of following :** **(35)**

A	Write a detailed note on methods used to apply/feed radioactive substances to plants during biogenetic studies.	**5**
B	Write in detail about acetate mevalonate pathway.	**5**
C	Differentiate between Fennel and Coriander.	**5**
D	Write down pharmacognosy of drug used as a dental analgesic.	**5**
E	Write down isolation, identification and analysis of Menthol	**5**
F	Write method for isolation of Atropine and Curcumin	**5**
G	Describe a suitable method for production and estimation of Diosgenin.	**5**
H	Write industrial production and utilization of Caffeine.	**5**
I	Write down source, chemical constituents and uses of Colophony and Ginger	**5**