Subject Code: BP504T

PAPER ID-410593

Roll No: | | | | | | | | | | | | | |

B PHARM
(SEM V) THEORY EXAMINATION 2021-22
PHARMACOGNOSY AND PHYTOCHEMISTRY-II

Time: 3 Hours ***Total Marks: 75***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 10 x 2 = 20

a.	Define chromatography with suitable example.
b.	Discriminate primary and secondary metabolites with example.
c.	Differentiate TLC and HPTLC.
d.	Write chemical test used to identify Cardiac glycosides.
e.	Differentiate hydrolysable and condensed tannins with example.
f.	Write the bio-sources and medicinal uses of Benzoin and Clove.
g.	Enlist various modern methods used for extraction.
h.	Define tannin. Write chemical test of tannins.
i.	Write biological source and chemical constituents of Tea and Taxol.
j.	Define radiotracer technique. Enlist various detectors used in tracer techniques.

SECTION B

2. Attempt any *two* parts of the following: 2 x 10 = 20

a.	Explain in detail about shikimic acid biosynthetic pathway.
b.	Describe the application of HPLC techniques used for standardization of herbal drugs.
c.	Illustrate industrial production, estimation and utilization of Forskolin and Caffeine.

SECTION C

3. Attempt any *five* parts of the following: 7 x 5 = 35

a.	Explain isolation of Atropine and Podophyllotoxin.
b.	Discuss bio-sources, therapeutic uses and commercial applications of Opium and Digitalis.
c.	Write about isolation, identification and analysis of Quinine.
d.	Describe about the industrial production and utilization of Sennosides and Digoxin.
e.	Write short note on Mevalonic Acid pathway
f.	Describe bio-sources, compositions, chemistry and therapeutic uses of Licorice and Rauwolfia.
g.	Describe in detail about application of spectroscopic techniques used for quality control studies of herbal drugs.

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