Subject Code: RPH736

PAPER ID-410466

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

B. PHARM
(SEM VII) THEORY EXAMINATION 2021-22
PHARMACOGNOSY-IV

Time: 3 Hours ***Total Marks: 70***

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

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14

a.	Define Suspension Culture.
b.	What do you mean by fingerprinting?
c.	Mention the physiological effects of Tobacco.
d.	Explain the utilization of Diosgenin.
e.	Write the examples of Purine and Steroidal alkaloids.
f.	Write the composition of Dragendorff's and Mayer's Reagent.
g.	Write the biological source and uses of any two indole alkaloids.

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

a.	Describe role of HPTLC in standardization of Herbal drugs.
b.	Explain the historical development of Plant Tissue Culture.
c.	Write the biological source, morphology, microscopy, chemical constituents and identification tests of Ephedra.
d.	Discuss the production and utilization of Tropane alkaloids.
e.	Explain the microscopy of Belladonna and Lobelia.

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Explain the source, chemical constituents and uses of Kurchi & Veratrum.
(b)	Explain the source, chemical constituents and uses of Vasaka & Colchicum.

4. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Describe the Pharmacognosy of Coca and Ipecac.
(b)	Describe the complete pharmacognostic profile of Nux vomica.

5. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Discuss the production and utilization of Podophyllotoxins.
(b)	Discuss the production and utilization of Solasodine.

6. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Discuss the types of plant tissue culture and their applications in pharmacy.
(b)	Elaborate in detail about nutritional requirements in Plant Tissue Culture?

7. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Discuss the herbal drug interactions.
(b)	Elaborate the Bioactive compounds enhancing the bioavailability.