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First Semester Examination for the Degree of Bachelor of Pharmacy

PHARMACOGNOSY AND PHYTOCHEMISTRY –

Paper - 1 T 5

Time: Three Hours [Max. Marks: 80

- N. B.: (1) Question No. 1 is compulsory.
 - (2) Solve any four questions from the remaining.
 - Draw neat labeled diagram wherever necessary.
- Short answer question. (Any Five) :—
 - (a) Define Ayurveda ? Explain in brief Tridosha.
 - (b) Write about contributions of the Charaka and Galen in the history of pharmacognosy.
 - (c) Give chemical tests for tannins.
 - (d) What are secretary tissue system ?
 - (e) Define saponins ? What are the basic physical and chemical properties of saponins ?
 - (f) Explain in brief any two methods for preparation of crude drugs for market.
 - (g) What are barks ? Give the microscopical characteristics of barks with example. 4 x 5 = 20
- (a) What do you mean by quality and purity of crude drugs? Add a note on Exogenous factors affecting on the quality of crude drugs.
 - (b) What are organized crude drugs? Explain characteristics of leaves.

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Contd.





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1,7	Define vascular bundle. Write the nature and functions of xylem and phloem.
3. (a)	What are plant metabolites? Explain in details study of basic metabolic pathways and formation of different primary metabolites with example.
	What are carbohydrates ? Add a note on types of carbohydrates.
4. (a)	What are secondary plant metabolites? Explain shikimic acid pathway for formation of different secondary metabolites.
(b)	What are Alkaloids? Explain how alkaloids as secondary metabolites are useful for medicinal purpose.
5.7	Explain about endogenous factors affecting quality and purity of crude drugs. 10
(b)	Write the basic Principle, Diagnosis, Symptoms and treatment of Unani System of Medicine. 5
6. Write	a short notes on following. (Any Three) :-
(i)	Adulteration
(ii)	Aromatherapy
(iii)	Stomata
(iv)	Glycosides
(v)	Roots and Rhizomes 15
	ibe different systems of classification of crude with their advantages and disadvantages. 15

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