**B.Pharm 4th Semester Examination**

**Subject- Pharmacognosy and Phytochemistry-I (BP405T)**

**Full mark- 75 Time – 3 hours**

**Answer all the questions.**

**1. Answer all. (10x2=20)**

**(a) Define Pharmacognosy.**

**(b) What is the principle of Serotaxonomical classification?**

**(c) How the stomatal index is calculated?**

**(d) What is the characteristic feature of Paracytic stomata?**

**(e) What are the main functions of Auxins?**

**(f) What is the source of carbon in plant tissue culture medium?**

**(g) Name the three types of doshas as per the Ayurveda system of medicine.**

**(h) Name the reagents generally used for identification of alkaloids.**

**(i) Classify resins on the basis of their occurrence in combination with other compounds.**

**(j) Write the biological source of Tragacanth.**

**2. Answer any two Questions. (2 x 10=20)**

**(a) How the natural drugs are generally adulterated? Discuss the methods followed for evaluation of the drugs of natural origin and describe the physical evaluation.**

**(b) Describe the types of plant tissue culture with special emphasis on principle and procedure. Write down the applications of plant tissue culture.**

**(c) Classify glycoside with examples. Write down the properties and identification tests of glycosides.**

**3. Write short-note on any seven. (7x5=35)**

**(a) Gums and mucilages**

**(b) Chemical classification of natural drugs**

**(c) Camera Lucida**

**(d) Hybridization**

**(e) Callus culture**

**(f) Unani System of medicine**

**(g) Volatile oil**

**(h) Teratogens**

**(i) Proteolytic Enzymes**