

Roll No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**PARUL UNIVERSITY**  
**PARUL INSTITUTE OF PHARMACY**  
**B.PHARM FIFTH SEMESTER**

**SECOND INTERNAL THEORY EXAMINATION: 2019-20**

**Subject Name: Pharmacognosy & Phytochemistry-II**

**Subject Code: BP504T**

**Time: 02:00 pm to 03:15 pm**

**Date: 26/09/19**

**Total Marks: 30**

**Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

**Q.2 Long Answers:(Any One)**

- (1) Define spectroscopy and discuss applications of spectroscopy in the isolation, purification and identification of crude drugs.. **10**
  
- (2) Write about Pharmacognosy, Industrial production/isolation and Utilization of following **10**  
  
Liquorice-Glycyrrhetic acid  
  
Digitalis- Digoxin

**Q.3 Short Answers:(Any Two)**

- (1) Discuss Tea (with isolation of caffeine) **05**

**OR**

Define Phenylpropanoids write about Lignans in detail.

- (2) Define volatile oil and Classify it. Write B.S. and chemical constituents of fennel and cassia bark. **05**
  
- (3) Write the definition and classification of tannin. Differentiate pale and black catechue. **05**

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