

Code No: 217AA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
B. Pharmacy IV Year I Semester Examinations, May - 2018  
PHARMACOGNOSY-III

R13

Time: 3 hours

Max.Marks:75

Note: This question paper contains two parts A and B.  
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub quest

**PART-A**

- (25 Marks)
- Write the source of any two leaf drugs containing alkaloids. [2]
  - Give two chemical tests for Tropane and steroidal alkaloids. [3]
  - What are Glycosides? Give the source of any two root drugs containing glycosides. [2]
  - Give the source and composition of Dioscorea. [3]
  - Write a note on the subculturing techniques in plant tissue culture. [2]
  - Give the composition of MS media. [3]
  - Give the source and uses of camptothecin. [2]
  - Give the source, identification tests and uses of taxol. [3]
  - Mention the source and chemical nature of any one antibiotic drug of marine origin. [2]
  - Write the source and importance of Spirulina. [3]

**PART-B**

- (50 Marks)
- Write the source, chemical constituents, uses and identification tests of
    - Withania
    - Colchicum.

OR

Classify alkaloids? Give the properties and functions of alkaloids and add a note on the general identification tests for alkaloids. [10]
  - Classify Glycosides chemically with specific examples and write in brief the Pharmacognostic study of Digitalis. [10]
  - Give the source, chemical constituents, chemical tests and uses of
    - Visnaga
    - Ginseng.

OR

Write detailed account on establishment of cultures, measurement of growth and maintenance of plant tissue culture. [10]
  - Write a short note on nutritional requirements for tissue culture and add a note on their applications in pharmacy. [10]