

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(END SEMESTER EXAMINATION)

CLASS: B.PHARM  
BRANCH: PHARMACY

SEMESTER : IV  
SESSION : SP/18

SUBJECT: PS4407 PHARMACOGENOSY-II

TIME: 3 HOURS

FULL MARKS: 60

**INSTRUCTIONS:**

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
  2. Candidates may attempt any 5 questions maximum of 60 marks.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) Define the following terms :  
i) Gum-resin                                      ii) Ole- resin                                      [2]  
    iii) Oleo-gum-resin                                      iv) Balsam
- Q.1(b) Mention the biological source, constituents and uses of cannabis and Podophyllum [4]  
Q.1(c) Write in detail the Pharmacognosy of Turmeric [6]
- Q.2(a) How will you proceed for phytochemical screening of an unknown medicinal plants? Explain. [2]  
Q.2(b) Mention the chemical tests used for the identification of alkaloid and glycosides. [4]  
Q.2(c) Discuss and Describe why Thin layer chromatography is a common choice for the analysis of natural drug? Explain with suitable examples. [6]
- Q.3(a) Mention biological sources of Cotton and Gelatin. [2]  
Q.3(b) Define Pharmaceutical AIDS. Mention its importance in Pharmacy. [4]  
Q.3(c) Write in detail the Pharmacognosy of Silk. [6]
- Q.4(a) Define enzyme? Discuss its importance in Pharmacy citing some examples. [2]  
Q.4(b) Write in detail the biological source, characteristics and method of preparation Pepsin. [4]  
Q.4(c) Discuss and Describe complete Pharmacognosy of Papain. [6]
- Q.5(a) Enumerate various traditional system of medicine practicing in India. [2]  
Q.5(b) Write a short note on Churna. [4]  
Q.5(c) Define Aristha and Asava. Write in detail the method of preparation of Asavaristha. Mention various factors influencing the preparation of Asvaristha. [6]
- Q.6(a) Mention the biological source of following traditional drugs: [2]  
    i) Arjuna                                      ii) Ashoka
- Q.6(b) Write in detail the biological source, chemical constituents and uses of Lahsun and Amla. [4]  
Q.6(c) Mention chemical constituents and uses of Gymnema, Puneruva and Brahmi. [6]
- Q.7(a) Define the following terms: [2]  
    i) Antibiotic                                      ii) Plant toxins                                      iii) Allergens
- Q.7(b) Mention biological source (at least one), Plant toxin and antibiotics. [4]  
Q.7(c) Write short notes on HPLC and its application. [6]

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