

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

**CLASS: B.PHARM  
BRANCH: PHARMACY**

**SEMESTER : VI  
SESSION : SP/19**

**SUBJECT: PS6405 PHARMACOGNOSY-IV**

**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) Discuss the role of Primary and secondary metabolites in pharmacy. [2]  
Q.1(b) Write two methods of preparation of Pharmaceutical formulation using terpenes. [4]  
Q.1(c) Describe the structural features of various building blocks of secondary metabolites and write them with structures. [6]
- Q.2(a) Define alkaloids. Write down the chemical test for alkaloids. [2]  
Q.2(b) Write biological source, test and biosynthetic pathways of Abietic acid. [4]  
Q.2(c) Write down the structure and uses of following drugs [6]  
i) Lycopene ii) Carophyllene iii) Reserpine iv) Quinine v) Citronellal vi) Ouabigenin
- Q.3(a) What are Quassanoids? Give the example of it. [2]  
Q.3(b) Write down biological source, chemical structure and uses any two flavonoids. [4]  
Q.3(c) Write down the biological source, microscopic characters, structure of any glycosidal leaf drug. [6]
- Q.4(a) What are herbal pesticides? Give the ideal characteristics of herbal pesticides. [2]  
Q.4(b) Write down the biological source, chemical constituents and uses of Neem and Pyrethrum. [4]  
Q.4(c) Write down the biological source, geographical source, chemical constituents and uses of Tobacco [6]
- Q.5(a) Define the word Nutraceutical with examples. [2]  
Q.5(b) Write short notes on soya and garlic. [4]  
Q.5(c) Write down the biological source, geographical source, chemical constituents and uses of Spirulina. [6]
- Q.6(a) Define herbal cosmetics. Write down the name of ten marketed herbal formulation [2]  
Q.6(b) Discuss various types of skin. Write down the name of herbs used in different type of skin. [4]  
Q.6(c) Explain the term wrinkle. Write down the names of herbs used as antiwrinkle. Write down the antiaging formulation. [6]
- Q.7(a) Write down the biological source of herbs used for following formulations [2]  
(i) Hair darkener (ii) Wrinkle (iii) shampoo (iv) Conditioner  
Q.7(b) Write short notes on Cosmeceuticals and Nutricosmetics. [4]  
Q.7(c) Write down the method of preparation of two herbal formulations. [6]

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