

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

CLASS: BPHARM
BRANCH: PHARMACY

SEMESTER : VI
SESSION : SP/18

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 importance of primary and secondary metabolites with examples. [2]
Q.1(b) Enumerate various techniques of elucidation of biosynthetic pathways. [4]
Q.1(c) Discuss the structural features of various building blocks of secondary metabolites and write them with structures. [6]
- Q.2(a) Define the word Terpenoid. Give its classification with examples. [2]
Q.2(b) Write two methods of preparation of Pharmaceutical formulation using terpenes. [4]
Q.2(c) Write the biological source, microscopical characters with neat diagram and chemical constituents and of i) Alkaloidal drugs ii) Saponin drugs iii) Glycosides drugs. [6]
- Q.3(a) Write the structures and identification test of Vitamin A and β carotene. [2]
Q.3(b) Write biological source, test and biosynthetic pathways of Abietic acid. [4]
Q.3(c) Write down the structure and uses of following drugs [6]
i) Ergotamine ii) Cycloartenol iii) Reserpine iv) Quinine v) Ephedrine vi) Hecogenin
- Q.4(a) Write down the biological source and uses of any two cardenolide drugs. [2]
Q.4(b) Write down the biological source, uses and biosynthetic pathway of Papaverine. [4]
Q.4(c) Write down the characteristic features, biological source and uses of any one steroidal saponin. [6]
- Q.5(a) What are Nutraceuticals? Give its role in health care system. [2]
Q.5(b) Write the biological source, active constituents and structures of any two anticancer drugs from plant source. [4]
Q.5(c) Write short notes on Garlic, soya and spirulina with respect to nutraceuticals. [6]
- Q.6(a) Enlist the different class of herbal cosmetics product available in the market with examples. [2]
Q.6(b) Write down the method of preparation of herbal skincare product. [4]
Q.6(c) Write short notes i) Herbal shampoo ii) conditioners iii) Hair darkeners [6]
- Q.7(a) Write the importance of herbal pesticides and name three herbal pesticides. [2]
Q.7(b) Write down the biological source, chemical constituents and uses of Neem and Vitex. [4]
Q.7(c) Write short notes on Pyrethrum, Turmeric and Tobbaco. [6]

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