

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

CLASS: M.PHARM
BRANCH: PHARMACOGNOSY

SEMESTER : I
SESSION : MO/22

SUBJECT: MPG103T PHYTOCHEMISTRY

TIME: 3 HOURS

FULL MARKS: 75

INSTRUCTIONS:

1. The question paper contains 7 questions each of 15 marks and total 105 marks.
 2. Candidates may attempt any 5 questions maximum of 75 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 Write the general biosynthetic pathway? Explain the different methods to elucidate the biosynthetic pathways [15]
- Q.2 Explain biosynthesis of three different phytoconstituents in detail? [15]
- Q.3 Explain with examples the drugs developed from natural sources? [15]
- Q.4 Explain how splitting occurs in proton NMR? Write the application of UV spectroscopy in quality control of natural compounds? [15]
- Q.5 Categorize and explain different methods of preparation of plant extracts along with their advantages and disadvantages? [15]
- Q.6 Evaluate the factors to be considered for developing lead molecules from natural source ? [15]
- Q.7 Deduce the factors affecting IR spectrum explain with examples? [15]

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