



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Advanced Pharmacognosy I [PCO-MPG102T - S2]

Marks: 75

Duration: 180 mins.

### SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Discuss briefly the various aspects of cultivation and collection of medicinal plants. (10)
- 2) Describe the general methods of isolation of bioactive compounds of marine origin. Add a note on source and structure of any six marine natural products. (10)
- 3) Give the occurrence, isolation and separation, chemical structure including the health benefits of Carotenoids. (10)
- 4) Write the isolation, structure and uses of Shatavarins and Ellagic acid. (10)
- 5) Explain in detail about the Pharmacovigilance centres and add a note on Spontaneous reporting scheme. (10)

### SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Distinguish between *Ex situ* and *In situ* conservation of medicinal plants (5)
- 7) List out the major sources of marine natural products with examples with special emphasis on marine sponges (2+3) (5)
- 8) Explain Broccoli and Soybean with reference to its source, chemical nature and health benefits (5)
- 9) Describe functional foods, PUFA, Probiotics and dietary fibers with examples (5)
- 10) Describe the minerals as dietary supplements (5)

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