

Exam Date & Time: 09-Mar-2022 (10:00 AM - 01:00 PM)



## 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) How good agricultural cultivation practices are to be followed for medicinal plants as per the WHO guidelines. (10)
- 2) Give the source and structure of five each of drugs used as antiinflammatory and antimicrobials from marine source (10)
- 3) Give the occurrence, isolation and separation, chemical structure including the health benefits of Tocopherols and Tocotrienols. (10)
- 4) Give a detailed account of fat soluble Vitamins. (10)
- 5) Discuss NPP and the various Pharmacovigilance centres with their objectives and functions. (10)

### SECTION - B

**Answer all the questions.**

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

- 6) Give an account of Indian Council of Agricultural Research (5)
- 7) Describe the problems and solutions in the separation of water soluble constituents from marine natural products (5)

- 8) Give the source, chemical composition and uses of Garlic and Turmeric (5)
- 9) Describe Health drinks of natural origin (5)
- 10) Define functional foods, PUFA, probiotics, prebiotics and dietary fibers with examples (5)

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