

**B.Sc.-M.Sc. INTEGRATED PROGRAMME (TOXICOLOGY)
SEMESTER III, ONLINE EXAMINATION 2020
PAPER CODE - BTX-CC07TH**

PAPER TITLE: INTRODUCTION OF TOXICOLOGY

Time : Three Hours

Maximum Marks : 75

**Attempt all questions. All parts of a question must be attempted in continuation.
Start answer of a fresh question on a new page. Cite examples and draw labeled
diagrams wherever necessary**

Question No. 1:

Briefly answer the following:

[10 x 1½ = 15]

- Give the name of one of the toxic compounds in hemlock.
- What importance 'Lex Cornelia' does hold?
- Which of the Saints was inscribed on the bottle of 'Aqua Tofana'?
- Name of the Scientists who developed arsenic detection test.
- Define phocomelia.
- Name the author of 'Silent Spring'.
- Write full form of TCDD.
- What is described in OECD Test Guidelines No. 423?
- Write full form CFR.
- Highest concentration of DDT is found in which organ after bioaccumulation?

Question No. 2:

Write short notes on any THREE of the following:

[3 x 5 = 15]

- What is contribution of Orfila in development of toxicological principles?
- Minamata episode and its consequences.
- Elements of toxicology.
- How important is animal welfare in toxicology?
- Briefly described Good Laboratory Practice (GLP).

Question No. 3:

Answer any THREE in short:

[3 x 5 = 15]

- a) Described toxicity of thalidomide prompted promulgation of strict drug safety rules?
- b) What is importance of acute toxicity test?
- c) Describe one alternative procedure of LD50 test.
- d) Briefly describe concepts of NOAEL and LOAEL.
- e) Why rat model is suitable for toxicology experiments?

Question No. 4:

Write short notes on any THREE of the following:

[3 x 5 = 15]

- a) Briefly discuss the history related to Toxicology in Age of Antiquity
- b) Different types of Toxicity.
- c) Explain synergistic interactions with examples
- d) Systemic Toxicity
- e) What are Phase-II reactions

Question No. 5:

Write short notes on any THREE of the following:

[3 x 5 = 15]

- a) Factors affecting toxicity
- b) Effects of toxicants on target molecules
- c) Principles of pharmacokinetics
- d) Major routes of exposure
- e) Elimination of toxicants

It should be noted that 40 minutes extra time will be provided to scan your answer sheets, build a PDF and upload it.

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