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ZOH 452

Second Semester M.Sc. Examination, September/October 2022

(CBCS)

ZOOLOGY

Toxicology and Cancer Biology

Time : 3 Hours

Max. Marks : 70

Instructions : 1) Answer **all** questions.

2) Give illustrations **wherever** necessary.

I. Write short notes on :

(5×2=10)

- a) M.J.B. Orfila.
- b) Permissible Limit Value.
- c) IEDs.
- d) Liquid tumor.
- e) Proto-oncogene.

II. Describe :

12

- a) Phase-I reaction with examples.

OR

- b) Rodent and non-rodent species used in toxicological studies.

III. Explain :

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- a) Teratogenicity testing.
- b) Reproductive toxicity.

OR

- c) Microbial toxins.
- d) Food toxins.

P.T.O.



IV. Give an account of : **12**

- a) Classification and identification of drugs.
- b) Investigation of toxicity related deaths.

OR

- c) Principles and procedure of antidotal therapy.

V. Elucidate : **12**

- a) The endosulfan tragedy.
- b) Classifications of human cancers.

OR

- c) Ionizing radiation and UV radiation.

VI. a) Write a detailed account on functional class of oncogenes and their mechanisms of carcinogenesis. **12**

OR

Write notes on :

- b) Danger theory.
 - c) Natural killer cells.
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