

**B.Sc.-M.Sc. INTEGRATED PROGRAMME (TOXICOLOGY)
SEMESTER V, ONLINE EXAMINATION 2020
PAPER CODE - BTX-SEC01TH**

PAPER TITLE: FUNDAMENTALS OF PATHOLOGY

Time : Two Hours

Maximum Marks : 37

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:

State whether following statements are True or False:

[07 x 1 = 07]

- a) Pathology is scientific study of structure and function of the body in disease.
- b) Lesions are the characteristic changes in tissues.
- c) An increase in number of cells is known as metaplasia.
- d) Chronic inflammation may lead to a progressive shift in the type of cells present at the site of inflammation.
- e) Mitochondria can be damaged by increase in cytosolic Ca ion concentration.
- f) Decreased ATP synthesis are not associated with cell injury.
- g) Apoptosis does not elicit an inflammatory reaction.

Question No. 2:

Attempt any THREE of the following:

[03 x 5 = 15]

- a) Vascular events in inflammation
- b) Cellular events in inflammation
- c) Role of extra cellular matrix in wound healing
- d) Sub cellular alterations in cell injury

Question No. 2:

Attempt any THREE of the following:

[03 x 5 = 15]

- a) Hypertrophy
- b) Cell injury due to loss of Ca homeostasis
- c) Apoptosis in physiological and pathological conditions.
- d) Application of pathology in understanding diabetes.

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