

**B.Sc.-M.Sc. INTEGRATED PROGRAMME (TOXICOLOGY)
SEMESTER V, ONLINE EXAMINATION 2020
PAPER CODE – BTX-GE6 TH**

PAPER TITLE: PATHOBIOLOGY OF DISEASES

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:

Fill in the blanks:

[07 x 1 = 07]

- An increased amount of blood in the vessels of an organ is known as
- A clot formation in the absence of bleeding is called
- Coagulation factor IV is commonly known as
- Hemophilia A is caused by the deficiency of
- Name the phase/phases of the cell cycle when **RNA synthesis** takes place
- Name the chromosomal elements where DNA replication initiates
- Name any one tumor suppressor gene

Question No. 2:

Attempt any THREE of the following:

[03 x 5 = 15]

- What is hemostasis, explain in detail?
- Write short note on stroke. Explain ischemic and hemorrhagic stroke.
- Describe myocardial Infarction and its available medical treatments.
- Describe in short different type of bleeding disorders.
- What is thrombosis? Explain deep vein thrombosis and hepatic vein thrombosis.

Question No. 3:

Attempt any THREE of the following:

[03 x 5 = 15]

- Explain tumors and their types.
- What are different stages and grades of cancer.
- Elaborate various factors associated with the cancer progression.
- What are cancer stem cells and their role in disease progression?
- Highlight the importance of cancer stem cell research in cancer therapy.

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