

School of Bio Sciences and Technology
 Winter Semester 2023- 2024
 Continuous Assessment Test – II

Programme Name & Branch: Cancer Biology and Informatics
 Course Name & code: BBIT322L
 Class Number (s): VL2023240502582
 Slot : G1+TG1
 Faculty Name (s): R Tamizhselvi

Exam Duration: 90 Min.

Maximum Marks: 50

Answer ALL the questions.

Q.No.	Question	Max Marks	CO	BL
1.	Relate activation of caspases and regulation of apoptosis at several levels in cancer.	10	1	2
2.	Review the role of interferons and IL12 in cell invasion and metastasis.	10	3	5
3.	A patient has a disorder that is inherited as a dominant trait. The doctor discovers that the disease is caused by biallelic inactivation of a gene for repairing damage induced by endogenous metabolic processes such as methylation, deamination, reactive oxygen species and hydrolysis. Identify the disorder this patient has? Explain the mechanism of the gene. A) Familial Breast Cancer B) Hereditary non-polyposis cancer C) Malignant melanoma D) MYH-associated polyposis	10	2	1
4.	Explain the mechanisms and modulators of drug resistance in cancer.	10	4	4
5.	Sketch the crosstalk between tumor cells, endothelial cells, and stromal cells is modulated by the Notch pathway and stimulates tumor angiogenesis	10	5	3



VIT

Vellore Institute of Technology

(Deemed to be University under section 3 of U.G. Act, 1956)

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