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PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B. Tech Mid Semester Exam

Semester: 6th
Subject Code: (203144383)
Subject Name: (Cancer Biology)

Date: (01/02/2024) Time: (1hr: 30min) Total Marks: 40

Sub		Total Marks: 40	
Sr. I			
Q.	(A) (Ino line ()	Marks	
	1. What is the primary cause of cancer?	05	
	2. Name two types of cancer-cousing views		
	 3. How is the spread of cancer from its original site to other parts of the body termed? 4. What cellular process is often disrupted in capper allowing. 		
	4. What cellular process is often disrupted in concernation of the body termed?		
	5. What are oncogenes, and how do they contribute to cancer development?		
	(B) Fill in the blanks 1 is a signaling protein that with the state of the blanks.	05	
	is a signaling protein that stimulates the formation of blood vessels. is a process that eliminates damaged or unwanted cells to maintain tissue homeostasis.		
	3 Mutations :-		
	increased risk of breast and ovarion consequences are associated with an		
	4. Familial cancer syndromes are often associated with specific mutations in key		
Q.2	5. The G1 checkpoint is regulated by the tumor suppressor protein, inhibiting the activity of cyclin-dependent kinases.		
Q.2	Attempt any farm (CI		
	C / I WO CHI CHI USCHS COMPINITA TO The de I	12	
	characteristics and notential impact on the Landingmant tumors, discussing their growth		
	(7) Define file asiasis and explain how are		
0.2	(5) How do cyclins and CDKs coordinate the cell cycle, and what are the consequences of their dysregulation?		
Q.3	(1) Analyze the role of mutati		
	(1) Analyze the role of mutations in specific genes, such as p53 and BRCA1/2, in the regulation.	08	
	regulation. The second of these mutations on cell		
	(2) Explain the role of growth factors and receptors in cell cycle regulation, highlighting		
) <i>1</i>	cancer therapy?		
2.4	(A) According to Hanahan and Weinberg, what are the six biological hallmarks of	05	
	(B) Create a personalized treatment plan for a hypothetical cancer patient considering the type and stage of cancer.	05	
	(B) Evaluate the therapeutic implications of understanding cell cycle checkpoints in cancer treatment. Provide examples of drugs targeting these checkpoints.	05	
	o de discomponito.		