JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATION- 2024

B.Tech-VII Semester (CSE/IT/ECE/CE/BT/BI)

COURSE CODE (CREDITS):14B1WBT739 (3)

MAX. MARKS: 25

COURSE NAME: Stem Cells and Regenerative Medicines

COURSE INSTRUCTORS: Dr. Udayabanu

MAX. TIME: 1 Hour 30 Minutes

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No				
Q.140	Question	CO	Marks	T
Q1	Islets of Langerhans contains alpha, beta and delta cells. Critically evaluate the function of alpha and beta cells.		5	
Q2	"Endosteal" and "Vascular" niches. Do they have different roles? Justify and elaborate the role of osteoblasts as haematopoietic stem cells.	CO2,3	5	
Q3	Nervous tissue consists of two cell types. Explain and indicate their function.	CO3	5	
Q4	Summarize all the five developmental stages during adult hippocampal neurogenesis in the dentate gyrus of the hippocampus.	CO3,4	5	
Q5	Design a strategy to identify biomaterials and its scaffold for the formulation of constructs to be used in stem cell therapy.	CO5	5	