

Vivekananda College of Engineering & Technology, Puttur
 [A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]
 Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

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CONTINUOUS INTERNAL EVALUATION - 2

Dept: CS/AI/CD	Sem / Div: IV / A & B	Sub: Biology for Computer Engineers	S Code: BBOC407
Date: 30/05/25	Time: 9:30-11:00	Max Marks: 50	Elective: N

Note: Answer any 2 full questions, choosing one full question from each part.

QN	Questions	Marks	RBT	CO's
PART A				
1 a	Write a note on i) Working principle of bionic leaf ii) Shark skin as a friction-reducing swimsuit	10	L2	CO3
b	Explain the architecture of the lungs and describe the gas exchange mechanism in the lungs.	8	L2	CO2
c	What is echolocation? Discuss the application of echolocation in ultrasonography.	7	L2	CO3
OR				
2 a	Write a note on i) Kingfisher beak as bullet train ii) Human blood substitutes	10	L2	CO3
b	Explain the mechanism of filtration in human kidney.	8	L2	CO2
c	What is ultrasonography? Explain the uses and working principle.	7	L2	CO3
PART B				
3 a	Write a note on i) Electrical tongue ii) Electrical nose	10	L2	CO4
b	Discuss how the skeletal system can be used as a	8	L2	CO4

		scaffold in tissue engineering.			
	c	Write a note on bio printing techniques	7	L2	CO4
OR					
4	a	Write a note on i) DNA Origami ii) Artificial intelligence for Disease diagnosis	10	L2	CO4
	b	What is Bio-computing ? Discuss the technological Importance of Bio-computing.	8	L2	CO4
	c	Write a note on Self-Healing Bio-concrete	7	L2	CO4

Prepared by: Dr. Chethan P.D.

HOD: Prof. Ramanand Kamath

[Signature]
24/05/25