

Nanobiotechnology VTU CBCS Question Paper Set 2018



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Sixth Semester B.E. Degree Examination, June/July 2017 Nanobiotechnology

Max. Marks:100 Time: 3 hrs.

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

		$\underline{PART} - \underline{A}$	
1	a. b.	Explain offerly the types of reaction actual.	(10 Marks) (10 Marks)
2	b.	Write a brief note on Point group symmetries and their function in bionanomachin Write a note on Quasi symmetrical complexes.	(10 Marks) es. (06 Marks) (04 Marks)
3	a. b. c.	Explain about the functions of lipids.	(04 Marks) (06 Marks) (10 Marks)
4	a. b. c.	Describe nanosensors and its applications. Explain about the electron transfer in biomolecular systems. Write a short note on effect of biosensors in biological and physiochemical t	(06 Marks) (10 Marks) echniques. (04 Marks)
		<u>PART – B</u>	
5	a. b.	Explain the biomolecule manipulation in bioelectronics. Explain in detail about the semi conducting property of DNA.	(10 Marks) (10 Marks)
6	a. b.	Explain briefly about nano medicine and nano surgery. Explain briefly the different drug delivery vehicles.	(10 Marks) (10 Marks)
7	a. b. c.	Write a short note on the timetable of nano biotechnology. Explain briefly about the limitations and solutions of molecular nano technology. Write a note on general nano scale assembler.	(06 Marks) (04 Marks) (10 Marks)

a. Explain the concept of nano toxicology.

b. Explain about micro array and nano biochip.

(10 Marks)

(10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Sixth Semester B.E. Degree Examination, June/July 2016 Nanobiotechnology

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Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART - A

1	a. b. c.	Distinguish between bionanotechnology and nanobiotechnology Write a short note on the light dependent chemical reactions in biological system. Write short note on biomaterials.	(08 Marks) (06 Marks) (06 Marks)
2	a. b.	Explain about the four hierarchical strategies of construction of nanomachines. Discuss about biomolecular structure and stability.	(08 Marks) (12 Marks)
3	a. b. c.	Why gravity and inertia are negligible at nanoscale? Explain about atomic granularity of nanomachines. Explain about protein based nanomachines.	(06 Marks) (04 Marks) (10 Marks)
4	a. b. c.	Write a short note on biochip and micro array fabrication. Describe about nano-sensors and its applications. Explain about effect of biosensors in biological and physico-chemical techniques. PART – B	(10 Marks) (06 Marks) (04 Marks)
5	a. b.	Write a brief note on sequence specific molecular lithography. Write a note on bioelectronics. Explain how biomolecules manipulate the bioelectronics.	(10 Marks) ronics. (10 Marks)
6	a. b. c.	What is medical imaging? What is MRI? Mention its advantages and limitations. Explain about targeted drug delivery.	(04 Marks) (06 Marks) (10 Marks)
7	a. b. c.	What are the predictable advantages of nanobiotechnology? Give the case study on solving the issue of mutation of P ⁵³ gene. Write a short note on the advantages and limitations of nano robots in repair o genes.	(06 Marks) (10 Marks) f cells and (04 Marks)
8	a. b.	Explain about protein biochip array. Explain briefly about nanotoxicology.	(10 Marks) (10 Marks)

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