Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

a.

10

18NT822

## Eighth Semester B.E. Degree Examination, July/August 2022 Nanotoxicology

Max. Marks: 100 Time: 3 hrs.

Time:	3 h	rs.		
1	Not	e: Answer any FIVE full questions, choosing ONE full question from each mo	dule.	
1 a.	Ť	Module-1 Explain the effects of SWCNT exposure. Write a note on Systemic Translocation of inhaled particles.	(10 Marks) (10 Marks)	
<b>2</b> a	. \	OR  What are the methods and challenges involved in the toxicity study of nanomater	ials? (10 Marks) (10 Marks)	
b	). <sup>1</sup>	What is Ecotoxicologic Studies? Explain in detail about the Ecotoxicity testing.	(10 Marks)	
	ì.	Module-2 What are the different nanomaterials present in Environment and their Environment? How do you communication nanotechnological risks?	effect on (10 Marks) (10 Marks)	
	a.	OR  Describe the effect of nanomaterials in the Environment. Write a short note of Pollution control techniques.  Write a note on Safety and Pollution Control techniques.	1 Safety and (10 Marks) (10 Marks)	
		Module-3  Explain deposition and disposition of inhaled NSPS in the respiratory tract.  Explain the exposure of NSPs via G1 tract and Skin.	(10 Marks (10 Marks	
6	a. b.	OR Explain neural uptake and Translocation of NSPs. Explain the translocation of NSPs to the circulatory system through endocytic p	(10 Marks ath ways. (10 Marks	
7	a. b.	Module-4  Explain how the impact of nanotechnology on productivity, sustainability are sustained.  Explain how semiconductor scaling can be used as a model for study of na commercialization.	d equity wa (10 Mark notechnolog (10 Mark	
		OR  in the same bank with its three insights.	(10 Mark	
8	a. b.	Describe about nano bank with its three insights. Elucidate the non – nano effects of nanotechnology on the economy.	(10 Mark	
	υ.	Module-5  Nanatechnology	(10 Marl	

Describe the exploration of Patent matters associate with nanotechnology. Write a note on Negotiation over Quality of life in the nanotechnology initiative. (10 Marks) a.

Write a note on Ethics and Law in a New frontier.

(10 Marks)

(10 Marks)

(10 Marks)

\* \* \* \* \*

OR

Explain Ethical issues associated with Nanoscience and Nanotechnology.