

CBCS SCHEME

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17NT754

Seventh Semester B.E. Degree Examination, Jan./Feb. 2021 Nano Toxicology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is ecotoxicologic studies? Explain in detail about the ecotoxicity testing. (10 Marks)
b. Write a note on systemic translocation of inhaled particles. (10 Marks)

OR

- 2 a. What are the methods and challenges involved in the toxicity study of nanomaterials? (10 Marks)
b. Write a note on deposition of nanoparticles in the respiratory tract and the clearance. (10 Marks)

Module-2

- 3 a. Write a note on nanomaterials pollution and nano materials in environment. (10 Marks)
b. Elucidate the educational opportunities of nanotechnology and human resource for nanotechnology. (10 Marks)

OR

- 4 a. Write a note on safety and pollution control techniques. (10 Marks)
b. What are the different nanomaterials present in environment and their effect on environment? (10 Marks)

Module-3

- 5 a. Explain in detail the translocation of NSPs to the circulatory system through endocytic pathways. (10 Marks)
b. Explain the translocation of NSPs in the blood circulation to bone marrow in mice. (10 Marks)

OR

- 6 a. Elucidate the exposure of NSPs via GI tract and skin. (10 Marks)
b. Explain neural uptake and translocation of NSPs. (10 Marks)

Module-4

- 7 a. Elucidate the non-nano effects of nanotechnology on the economy. (10 Marks)
b. Explain the impact of nanotechnology on productivity, sustainability and equity was sustained. (10 Marks)

OR

- 8 a. Considering Malcom Baldrige criteria, how can you manage nanotechnology revolution? (10 Marks)
b. Describe about nano bank with its three insights. (10 Marks)

Module-5

- 9 a. Write a note on exploration of patent matters associated with nanotechnology. (10 Marks)
b. Write a note on ethics and law in a new frontier. (10 Marks)

OR

- 10 a. Write a note on negotiations over quality of life in the nanotechnology initiative. (10 Marks)
b. Describe about ethics of ethics. (10 Marks)

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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.