

Nanotoxicology and Social Implications VTU CBCS Question Paper Set 2018



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Sixth Semester B.E. Degree Examination, June/July 2016 Nanotoxicology and Social Implications

Time: 3 hrs.

Max. Marks: 100

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

PART - A

- Give a succinct account on inhalation and deposition of nanomaterials on blood circulatory system.
 - b. Discuss the research approaches for testing toxicity of nanoparticles in cardiovascular system. (10 Marks)
- 2 a. Explain the mechanism of nanosize particle toxicity with reference to oxygen specificity.
 - Give a note on cytotoxicity of ultra fine particles. (12 Marks)
 (08 Marks)
- 3 a. Discuss the safety and pollution control techniques in handling, packing transportation of disposed nanoparticles. (12 Marks)
 - b. Write a note on airborn nanoparticles. (08 Marks)
- 4 a. How are nanoparticles deposited in respiratory track? (10 Marks)
 - b. Describe the translocation process of nanoparticles to bone marrow via gastro intestinal track (10 Marks)

PART - B

- 5 a. Discuss the risk assessment with reference to legal and social implications in handling nanoparticles. (10 Marks)
 - b. Explain the regulation of applications of synthetic nanoparticles in Europe and U.S.A.

(10 Marks)

- 6 a. Discuss the nanotechnology revolutions considering Malcolm transcending Moore's law with molecular electronics. (10 Marks)
 - b. Write a note on socio-economic impact of nanoscale science. (10 Marks)
- 7 a. Discuss the ethical issues involved in nanoscience. (10 Marks)
 - b. Write a note on quality of life in nanotechnology initiative. (10 Marks)
- 8 a. What are the benefits to nanoengineers and mention the role of nanotechnology in K 12 education? (10 Marks)
 - b. Comment on research areas in India with reference to nanotechnology. (10 Marks)

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Sixth Semester B.E. Degree Examination, June/July 2017 Nano Toxicology and Social Implications

Time: 3 hrs. Max. Marks:100

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

PART - A

- 1 a. Write a note on systematic translocation of inhaled particles. (08 Marks)
 - b. What are the methods and challenges involved in the toxicity study of nanomaterials.

(12 Marks)

- 2 a. Explain in detail the mechanism of NSPs toxicity and reactive oxygen species mechanism of NSPs toxicity. (10 Marks)
 - b. Define Cytotoxicity and describe potential mechanism involved in cytotoxicity by nanomaterials. (10 Marks)
- 3 a. Describe the effect of nano materials in the environment. Write a short note on safety and pollution control techniques. (10 Marks)
 - b. Write a note on Nanomaterials in Environment and Nanomaterials pollution. (10 Marks)
- 4 a. Explain in detail the translocation of NSPs top the circulatory system through endocytic pathways. (10 Marks)
 - b. Explain Neural uptake and translocation of NSPs. (10 Marks)

PART - B

- 5 a. Explain the risk assessment, ethical and legal, social implications related with nanotechnology. (10 Marks)
 - b. How Nanotechnology can be used to improve quality, safety and security in agricultural production? (10 Marks)
- 6 a. Elucidate the non nano effects of nanotechnology on the economy. (10 Marks)
 - b. Considering Malcolm Balbridge criteria, how can you manage nanotechnology revolution?
 (10 Marks)
- 7 a. Elucidate ethical issues associated with nano science and nano technology. (10 Marks)
 - b. Write a note on Exploration of patent matters associated with nanotechnology. (10 Marks)
- 8 a. How do you communicate the nano technological risks? (10 Marks)
 - b. Elucidate the educational opportunities of nanotechnology and human resources for nanotechnology. (10 Marks)
