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Course Name: MSc Toxicology, Semester-II Supplementary Examination (2023)

Paper Name: Nanotoxicology
Time: 1hr 30 mins

Paper Code: MTX-OE 202
Maximum Marks: 30

Note: This paper has 3 sections A, B, and C, Attempt all three sections.

Abbreviations used
CO-Course Outcome, PO-program Outcome, BTL-Bloom Taxonomy Level: BT level 1-Remember; BT level 2-Understand; BT level 3 Apply; BT level 4 Analyse; BT level 5- evaluate, BT level 6 Create

SECTION A

Very Short Type Questions (Marks 1X10=10)

Q. No.	Question	Marks	BTL-	CO	PO
1.	An important mechanism of nanotoxicity is the generation of ……	1	2	4	3
2.	Describe role of nanoparticle in Oxidative stress?	1	1	1	2
3.	Toxicity of nanoparticles depends on various factors, write the name of the factors.	1	3	4	3
4.	……..formation is one of the mechanisms for nanoparticle toxicity.	1	4	3	2
5.	In comet assay, damaged DNA resemble the……..and the intact DNA resemble the……	1	1	5	4
6.	……..is the most commonly used salt for in vitro toxicity assessment of nanoparticles.	1	1	2	3
7.	Lymphatic system disease caused by nanoparticles called…….	1	1	3	2
8.	Nanomaterial have greater volume to surface area ratio (T/F)	1	3	5	4
9.	High drug loading and control drug release are the property of ……nanoparticle.	1	2	3	2

10.	Which of the following NP released as a by-product during the automobile exhaust? a). Bucky ball c). Carbon nanotube c). ZnO nanorods d). All	1	3	1	2

SECTION B

Long type Question (Attempt any two) (Marks 2X5=10)

Q. No.	Question	Marks	BTL-	CO	PO
1.	Explain the mechanism of action of invitro toxicity testing?	5	3	3	2
2.	Discuss the various mechanism of nanomaterial toxicity?	5	2	4	3
3.	Change in mitochondrial membrane potential assay by TMRE	5	3	4	2
4.	Discuss pros and cons of polymeric nanomaterilas with examples?	5	5	4	3

SECTION C

Short-type Questions. (Attempt all questions) 10 Marks

Q. No.	Question	Marks	BTL-	CO	PO
1.	Illustrate schematically mechanisms of NMs-induced toxicity	3	3	4	2
2.	What make technology at the nanoscale different from technology at the macroscale?	3	5	4	3
3.	Classify NP based on their dimensionality and morphology?	4	4	5	4