

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2023)

CLASS: BTECH
BRANCH: ALL

SEMESTER : VII
SESSION : MO/2023

SUBJECT: BE407 NANOBIO TECHNOLOGY (OE)

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a) What is Buckyball?	[2]	1	1
Q.1(b) Classify nanomaterials based on dimension with figure.	[3]	2	3
Q.2(a) What are the techniques can be used in nanoparticle characterization?	[2]	2	1
Q.2(b) Describe with figure about chemical vapour deposition method.	[3]	3	3
Q.3(a) What is lipid bilayer?	[2]	1	1
Q.3(b) Describe with figure about the liposome structure and function.	[3]	3	2
Q.4(a) What are the applications of polysacharride peptides?	[2]	2	2
Q.4(b) With figure describe the forces required in self assembly.	[3]	3	2
Q.5(a) What is metal nanoparticles?	[2]	2	1
Q.5(b) Compare bottom-up and top-down method.	[3]	2	3

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