

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

CLASS: BTECH/BARCH
BRANCH: All

SEMESTER : VII
SESSION : MO/22

SUBJECT: BE407 NANOBIO TECHNOLOGY

TIME:02 h

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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Q1	Explain the concept of Quantum Confinement and Surface Plasmon Resonance with respect to nanomaterials?	[5]	CO CO1	BL BL2
Q2	Define and enlist the major properties of Carbon nanotube and Dendrimer?	[5]	CO1,3	BL1
Q3	Discuss the synthesis, properties and application of Quantum Dots?	[5]	CO3,4	BL2
Q4	“Nanotechnology is not new”. Justify with suitably.		CO1	BL5
Q5	Describe the mechanism for nanoparticles formation and their control?		CO1	BL2

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