

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

**CLASS: BTECH
BRANCH: BIOTECH**

**SEMESTER: VII
SESSION: MO/2022**

SUBJECT: BE407 NANOBIO TECHNOLOGY

TIME: 2 HOURS

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 | "Nanoscale is a magical point on dimension scale". Justify suitably? | [5] | CO CO1 | BL BL5 |
| Q2 | Describe the molecular mechanism and factors influencing nanoparticle formation? | [5] | CO1 | BL2 |
| Q3 | Discuss the synthesis, properties and application of Carbon nanotube? | [5] | CO3 | BL2 |
| Q4 | Classify nanostructures based on dimension and origin and briefly explain each category. | [5] | CO1 | BL2 |
| Q5 | Differentiate between Dendrimers and Quantum Dots? Give the major applications of each. | [5] | CO1,4 | BL4 |

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