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Mid Semester Test: August-2016

Advanced Sciences

GUJARAT NATIONAL LAW UNIVERSITY GANDHINAGAR Course: Advanced Sciences Semester-III (Batch: 2015-20)

Mid Semester Test: August-2016 Date: 12th August, 2016 Duration: 11/2 hours Max. Marks: 20 Instructions: • Read the questions properly and write the answers in the given answer book. • The respective marks for each question are indicated in-line. · Do not write any thing on the question paper. · Draw the diagrams only with pencil. • Indicate correct question numbers in front of the answers. • No questions or clarifications can be sought during the exam period, answer as it is, giving reason, if any. Marks Part-A (2x0.5 Q.1 Answer the following questions: =01) (a) Who coined the word nanotechnology and define what nanotechnology is. (b) What are dendrimers? (2x2 =Q.2 Write a note on of the following: 04)(a) Top down approach and synthesis technique used for the approach. (b) Carbon based nanostructures What are carbon nanotubes? Explain its types, structure, mechanical, electrical and (5x1 =Q.3 05) thermal properties. OR Explain the classification of nanotechnology based on the dimensions and also explain electron confinement. Part-B (2x3 =Q.4 Answer the following briefly: 06) (a) Distinguish between Bioinformatics and Computational Biology. (b) Distinguish between "accession code and identifier". (c) Write short notes on Secondary databases. (04)Q.5 Explain the different BLAST programs

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