

EASETRN UNIVERSITY, SRI LANKA

THIRD YEAR SECOND SEMESTER EXAMINATION IN SCIENCE 2020/ 2021 (JULY/ AUGUST 2024)

CH3081 NANOTECHNOLOGY AND ITS APPLICATIONS

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Time: One hour

(a). "Properties of materials change when a material converts into nano level". *Discuss* this statement how different properties changes when a material converts into a nano level.

(30 Marks)

(b). Briefly *describe* the structures of different types of "Carbon Nanotube" and *discuss* its applications in various fields.

(20 Marks)

- (c). Discuss the Applications of Nanotechnology in the following areas
 - (i). Healthcare
 - (ii). Agriculture

(50 Marks)

(a). Sri Lanka's apparel and textile manufacturing industry is the most significant and dynamic contributor to the Sri Lanka's economy. Briefly *discuss* the role of Nanotechnology in the apparel and textile manufacturing industry in the current era.

(35 Marks)

(b). Briefly *discuss* the applications of nanotechnology in 'food packaging' with suitable examples.

(65 Marks)