DOON UNIVERSITY, DEHRADUN

School of Environment & Natural Resources
Mid Semester Exam, October-2014
M Tech (Environmental Technology) – Sem. III

ETC- 592: Life Cycle Assessment and Design Environment

Time Allowed: 2 Hours   *Maximum Marks: 30*

Section: A (Short Answer Type Questions/ to be answered in about 250 words. Attempt all Questions

Q 1   Define   (10)

- (i)   Present worth
- (ii)   Net present value
- (iii)   Depreciation
- (iv)   Internal rate of return
- (v)   Annual Cost
- (vi)   Resource consumption
- (vii)   System Boundaries
- (viii)   Inventory
- (ix)   Functional Unit
- (x)   Sustainability

Section B: Long answer Type questions:

Q2 (a)   Why do life-cycle assessment? How is life-cycle assessment used by manufacturers?   (5)

Q2 (b)   What is a product life-cycle and what are the various product life cycle stages?   (5)

Q3 (a)   What is the procedure for Planning an LCA Project?   (6)

Q3(b)   Write notes on the major Environmental effects considered in Life cycle assessment.   (4)