

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2018

Course: Fundamental of Sustainable Development
Program: M.Tech (HSE+DM)
Time: 03 hrs.

Semester: II
Course Code: MEEG 775
Max. Marks: 100

SECTION A (Attempt all the question, 5*4=20 Marks)

1. Project proponent needs to prepare a project design document (PDD) in order to register for project under CDM .Write briefly on common components of PDD. [CO5]
2. Write the key elements of Sustainable development. [CO1]
3. Describe the following in detail [CO3]
 - a) Precautionary principle
 - b) Carbon piracy
4. Define water footprint and its type, enumerate the importance of water footprint in sustainable development. [CO4]
5. Enumerate Product carbon footprint and corporate carbon footprint. [CO5]

SECTION B (Attempt only four question, 4*10=40 Marks)

6. Expand following term [CO5]
 - I. CER
 - II. GHG
 - III. UNFCCC
 - IV. COP
 - V. MOP
 - VI. ED
 - VII. CDM-AT
 - VIII. CDM-AP
 - IX. PIN
 - X. PDD
7. An indicator is something that helps you understand where you are, which way you are going and how far you are from where you want to be. United Nation has mentioned sustainability indicator, which is a critical factor for sustainable development. Describe it with sustainable indicator web. [CO4]

8. Explain in detail : [CO3]
a. Sustainability planning
b. Primary & Secondary Carbon footprint

OR

9. Outline the various dimensions of sustainable development. What are its fundamental principles?
[CO1]

10. What do you understand by certified emission reduction and energy efficiency? [CO2]

SECTION-C

(Attempt only two question, 2*20=40 Marks)

11. The CDM Executive Board was established as the UNFCCC secretariat to oversee the CDM process. In order to be registered as a CDM project activity, project proponents need to go through project cycle. illustrate what are the steps involve in project life cycle. [CO2]

OR

12. Since 18th century, generation of Green House Gases has resulted in progressive global warming due to Industrialization. To reduce the emission load on environment Kyoto Protocol was initially adopted on 11 December 1997 in Kyoto, Japan, and entered into force on 16 February 2005. Explain Kyoto Protocol and its impact on sustainable development. [CO3]

13. Enumerate the following in detail:
[CO2]

- a) Agenda 21
- b) Rio declaration
- c) Montreal Protocol
- d) Geneva convention

Name:

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- OR**
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