

**C.U.SHAH UNIVERSITY**

WADHWAN CITY

University (Winter) Examination -2013

Course Name: *Diploma(Engineering) Sem-I* Subject Name: -Environment Science & Energy Management

Marks :70

Duration :- 2:30 Hours

Date : 04/01/2014

**Instruction**

- (1) Attempt all Questions of both sections in same answer book / Supplementary.
- (2) Use of Programmable calculator & any other electronic instrument is prohibited.
- (3) Instructions written on main answer Book are strictly to be obeyed.
- (4) Draw neat diagrams & figures (If necessary) at right places.
- (5) Assume suitable & Perfect data if needed.

**SECTION-I****Que: 1 Answer the following questions.**

- 1) Give the names of different regions of the atmosphere. (1)
- 2) Define: Complete and In-complete ecosystem. (2)
- 3) Give the reasons of abuses of land. (2)
- 4) Write down the names of green house gases. (2)

**Que: 2 Answer the following questions.**

- 1) Explain Food chain with neat and clean diagram. (5)
- 2) Explain types of land based on area. (5)
- 3) State the effect of acid rain. (4)

**OR****Que: 2 Answer the following questions.**

- 1) Write a short notes on : a) Hydrosphere and b) Biosphere. (5)
- 2) State the importance of forest in the environment. (5)
- 3) What is C.F.C.? Explain. (4)

**Que: 3 Answer the following questions.**

- 1) Explain different regions of the atmosphere with neat and clean sketch. (7)
- 2) Write a short note on: Hydrological cycle. (7)

**OR****Que: 3 Answer the following questions.**

- 1) Explain remote sensing with figure. (7)
- 2) Explain green house effect and state its impacts too. (7)

**SECTION-II****Que: 4 Answer the following questions.**

- 1) Give the name of conventional and non-conventional sources of energy. (any two names) (2)
- 2) What are the advantages of (box-type) solar cooker? (2)
- 3) Draw only the figure of horizontal Axis – Dutch type wind mill. (2)
- 4) What are the byproducts of the photosynthesis process? (1)



**Que: 5 Answer the following questions.**

- 1) State the limitations of Renewable sources of energy. (5)
- 2) Write down the applications of the solar cells. (5)
- 3) Write Short note: Energy conservation in domestic appliances. (4)

**OR**

**Que 5 Answer the following questions.**

- 1) Give the distinction between Conventional and Non-conventional sources of energy. (5)
- 2) Write a short note on : Site selection for Biogas-plants. (5)
- 3) State the advantages and dis-advantages of wind – power energy. (4)

**Que: 6 Answer the following questions.**

- 1) Explain Solar cooker (box-type) (7)
- 2) Explain fixed dome type biogas plant ( Janta model ) with neat and clean diagram. (7)

**OR**

**Que: 6 Answer the following questions.**

- 1) State the construction and working of Smokeless Stoves (Nirdhoom Chulhas) with figure. State its applications too. (7)
- 2) Explain photosynthesis process and stages of photosynthesis process. Also explain the factors affecting Photosynthesis process. (7)

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