

Name:

Enrolment No:



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**End Semester Examination, May 2018**

**Course: Ecology, Environment and Resource Management**

**Semester: IV**

**Program: B. Plan**

**Time: 03 hrs.**

**Max. Marks: 100**

**Instructions: All questions are compulsory**

**SECTION A (05x04=20marks)**

**Compulsory**

S. No.	Fill in the blanks	Marks	CO
Q 1	a) A group of organism of the same species which live in the same habitat at the same time where they can freely interbreed is known as..... b) When there is rainfall and rapidly running water produces finger shaped grooves or rill over the areas this is known as.....erosion. c) The .....is a protocol linked to the United Nations Framework Convention on Climate Change, aimed at fighting global warming. d) .....is a measure of the probability of finding a given species with any one throw of quadrat in a given area.	4x1=4	CO1, CO1, CO6, CO4
Q2	Briefly discuss the objectives of EIA.	4	CO5
Q3	Define the term solar panel and wind farm.	4	CO3
Q4	Name any five organization (national/ international) involved in creating environmental awareness.	4	CO6
Q5	Write a short note on grazing food chain and detritus food chain.	4	CO1
<b>SECTION B (04x10=40 marks)</b>			
<b>Attempt all Questions</b>			
Q6	Explain the rotating biological contractor and activated sludge process of wastewater treatment.	10	CO2
Q7	Explain overlays and network method used in EIA.	10	CO5
Q8	Define the term sustainable development. Briefly discuss the characteristics of sustainability	10	CO3
Q9 (a)	Briefly discuss the steps used to calculate ecological footprints.	10	CO4
<b>Or</b>			
Q9 (b)	Briefly discuss the Lincoln index used for estimating the number of animals.	10	CO4

**SECTION-C (02x20=40 marks)**

**Note: This section is divided into 2 sections C-1 and C-2. Question no 10 is compulsory however choice is given in section C2. Students are required to attempt any one question from C2 i.e. Question 11 (a) or Question**

<b>11(b)</b>			
<b>Section C1</b>			
Q 10	Discuss the steps followed while conducting the EIA of any developmental projects.	<b>20</b>	<b>CO5</b>
<b>Section C2</b>			
Q11(a)	Illustrate the salient features of The Environment (Protection) Act, 1986.	<b>20</b>	<b>CO6</b>
<b>OR</b>			
Q11(b)	Discuss the salient features of The Water (Prevention and Control of Pollution) Act, 1974.	<b>20</b>	<b>CO6</b>