



Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

Course: Ecology, Environment and Resource Management

Program: B. Plan

Course Code: SPEP 2001

Instructions: All questions are compulsory

Semester: 4th

Time 03 hrs.

Max. Marks: 100

SECTION A (05x04=20marks)

Compulsory

S. No.		Marks	CO
Q 1	Name any five international/ national organization involved in environmental awareness.	04	CO5
Q2	Briefly discuss the impacts of ozone layer depletion on environment.	04	CO5
Q3	Define term eutrophication and super pest	04	CO2
Q4	Briefly discuss the detritus food chain	04	CO1
Q5	Write a short note on- Belt transect method	04	CO4

SECTION B (04x10=40 marks)

Attempt all Questions

Q6	Discuss the advantages, disadvantages and uses of biogas.	10	CO3
Q7	Discuss the different layers of atmosphere	10	CO1
Q8	Briefly, discuss matrix and checklist method used in EIA.	10	CO5
Q9(a)	Discuss the Settling chamber and Venturi scrubber for removing particulate matter from flue gas.	10	CO2
Q9(b)	Discuss the impact of urbanization on various component of environment.		

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 11(b)

Q 10	Discuss the natural factors to be considered while site planning.	20	CO4
Q11 (a)	Define environmental education. Briefly, discuss the importance and scope of environmental education	20	CO5
Q11 (b)	Discuss the salient features of The Water (Prevention and Control of Pollution) Act, 1974.		

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SECTION A (05x04=20marks)

Compulsory

S. No.		Marks	CO
Q 1	Briefly discuss the objective of sustainable development	04	CO2
Q2	Why are international environmental policies necessary?	04	CO5
Q3	Name the different stages of Xerosere	04	CO1
Q4	Briefly discuss the characteristics of food chain.	04	CO1
Q5	Write a short note on- wind energy	04	CO3

SECTION B (04x10=40 marks)

Attempt all Questions

Q6	With the help of well labelled diagram discuss floating gas holder type biogas plant.	10	CO3
Q7	Briefly, discuss the flow of energy in ecosystem with Lindeman's energy flow model.	10	CO1
Q8	Briefly, discuss the salient features of the Kyoto Protocol	10	CO5
Q9(a)	Discuss the adsorption and condensation technology used in the removal gaseous pollutant from the flue gas.	10	CO2
Q9(b)	Or Discuss the effect of agriculture on environment.		

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 11(b)

Q 10(a) Q10(b)	Discuss different methods used in quantitative ecology for sampling	20	CO4
Q11 (a)	Briefly discuss the screening , scoping and public hearing step of EIA methodology	20	CO5
Q11 (b)	Or Discuss the salient features of The Air (Prevention and Control of Pollution) Act, 1981.		