Name:

Enrolment No:



Semester

: I

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Programme Name: B.Sc. (Chemistry, Physics and Math's)

Course Name : Environmental Science : 03 Hrs

Course Code : MPLE812 Max. Marks : 100

Nos. of page(s): 2

Instructions: Please attempt all questions from Section "A", Section "B" and Section "C"

SECTION A: 20 Marks

Q.1.	Define following terms:				
	a) Endemic species (2 Marks) b) Food Web (2 Marks)	4	CO1		
Q.2.	What is the difference between primary air pollutants and secondary air pollutants?	4	CO3		
Q.3.	Write any four measures which are used for promoting sustainable development.	4	CO1		
Q.4.	What do you mean by in-situ conservation and ex-situ conservation?	4	CO1		
Q.5	What is water pollution? What are the various sources of water pollution?	4	CO3		
SECTION D. 40 Montra					

SECTION B: 40 Marks

Note: Student are required to attempt all questions from Section "B" however internal choice is given among Q. 10 and Q.11 student may attempt any one question i.e Q.10 or Q.11

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Q.6.	a) What is the importance of ozone layer? Explain the process of formation and destruction of ozone layer. (6 Marks)	8	CO2		
	b) What are the impact of ozone layer depletion on ecosystem? (2 Marks)				
Q.7.	Write about any eight environmental institutes/ organizations in India which are working in the field of environmental protection and management.	8	CO2		
Q.8.	What is biogeochemical cycles? Explain all the component of Sulphur cycle with suitable diagram.	8	CO1		
Q.9.	Explain how electricity is generated with the help of wind energy, geothermal energy & ocean thermal energy conversion (OTEC) technology.	8	CO1		
Q.10.	Explain various application of environmental studies in the context of the present word.	8	CO2		
	<u>Or</u>				

Q.11.	What do mean by Hot Spot biodiversity? Explain productive and consumptive use of biodiversity.	8	CO1			
Note	SECTION-C (40 Marks) Note: Question No. 12 is compulsory and student may attempt any one question i.e either Q.13 or Q.14					
Q.12	Explain various air pollution control equipment which are used for controlling particulate matter and gaseous emission generated in industry.	20	CO3			
Q13	Explain all the elements of municipal solid waste (MSW) management which you will use for disposal and management of MSW. Or	20	CO3			
Q.14	Describe the various units of physical, chemical, biological treatment of effluent Treatment Plant with the help of well labeled diagram to treat waste water generated from industries.	20	CO3			