


Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, January 2021

Course Name : Environmental Science	Semester : I
Programme Name : B. Sc.(Physics, Chemistry & Maths)	Time : 03 Hrs
Course Code :HSFS1003	Max. Marks : 100
	Nos. of page(s) :3

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

SECTION A – 30 Marks

1. Each Question will carry 5 Marks

2. Instruction: Complete the statement / Select the correct answer

SN	Questions	MM	CO
Q.1.	<p>Fill in the Blanks :</p> <p>i) The species which are under constant threat and may become ----- if the same condition persist.</p> <p>ii) ----- Involves intensive plantation of trees on available land or on land not under agriculture with the aim of fulfilling the commercial demand ,without causing denudation of natural forests.</p> <p>iii) An -----is a graphical representation of trophic structure and function of an ecosystem, starting with producer at base and successive trophic levels forming the apex.</p> <p>iv) The study which is carried out in order to take environmental clearance from Ministry of Environment is known as -----</p> <p>v) -----, writer, scientist, and ecologist, grew up simply in the rural river town of Springdale, Pennsylvania and she wrote a book ‘Silent Spring’.</p>	5	CO1
Q.2.	<p>Write T & F for the following</p> <p>i) Using solar thermal technologies to generate electricity is, at present, more expensive than using coal-fired power stations, but it produces much less pollution.</p> <p>ii) The soil formed by the deposition of silt brought by rivers is called red soil.</p> <p>iii) The wet scrubber are widely used in cement, power and metallurgical industries because of their capabilities to treat large gas flows, under high temperature and corrosive atmosphere and remove submicron particles.</p> <p>iv) The Brutland Commission was created by the World Bank in 1983 to reflect about ways to save the human environment and natural resources and to prevent deterioration of economic and social development.</p>	5	CO2

	v) Sunita Narayan is an Entomologist envisioned that biological diversity was a key to human survival on earth.		
Q.3.	Write full form of following abbreviations: i) ZSI ----- ii) CSE ----- iii) UNFCC ----- iv) BOD ----- v) TDS -----	5	CO1
Q.4	Identify any five national or international environmental organization which are working in the field of environmental protection and natural resource management.	5	CO2
Q.5.	Write any five UN Sustainability Goals (SDGs) which was set by United National Assembly in 2015.	5	CO1
Q.6.	Identify any five impact of green house effect.	5	CO2
SECTION B (10 x 5 = 50 Marks) (Attempt all question from this section however internal choice in Q.11.)			
Q.7.	Define noise pollution. What are the effects of noise pollution on human being. Explain various measures by which we can control noise pollution.	10	CO3
Q.8.	Evaluate various principle and functions of air pollution control equipment which are used to control particulate pollutants generated from industrial emission with well labelled diagram.	10	CO4
Q.9.	Identify the various steps which you shall implement for taking environmental clearance for River Valley Project from MoEF and Climate Change.	10	CO4
Q.10.	What are the different types of biodiversity? Explain various measures which are used form conservation of Biodiversity.	10	CO3
Q.11.	What is solid waste pollution? Explain any four methods which are used for the disposal of solid waste pollution Or	10	CO2

	What is biogeochemical cycles? Explain all the component of Nitrogen with suitable diagram.	10	CO2
SECTION-C SECTION -C (2 x 20 = 20 Marks) Attempt any one question from this section.			
Q.12	Describe various units of Primary, Secondary and Tertiary treatment of Effluent Treatment Plant with the help of well labeled diagram to treat waste water generated from industries. <u>Or</u> What do you mean by TOR (Terms of Reference). Evaluate all environmental components and methodologies which are considered for taking environmental of Thermal Power Plant.	20	CO4
		20	CO4