Name: Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: Environmental Economics Semester: V

Program: BA (H), Specialization in Energy Economics

Course code: ECON3001 Time: 03 Hours
Instructions: Do as directed Max. Marks: 100

SECTION A

		Marks	CO
Q1.	Choose the correct answer		
i.	Circle the correct/best statement. (a) Environmental economics does not deal with scarcity of resources because environmental resources are abundant. (b) Environmental economics deals with optimal quality of those environmental resources that cannot be subdivided into smaller physical units, like air quality and ecology. (c) Environmental economics deals with optimal quantity of those natural resources that can be divided into smaller physical units, like barrels of crude oil etc. (d) Both b and c are correct.	[2]	CO1
ii.	Two principal characteristics of "economics approach" are (a) Rationality and anthropocentricity. (b) Rationality and efficiency. (c) Efficiency and cost effectiveness. (d) Efficiency and equity.	[2]	CO1
iii.	Circle the correct/best statement. (a) A society faces a tradeoff between the amount of market goods and the level of environmental quality it can enjoy. (b) A society faces a tradeoff between the amount of market goods it can enjoy in the short run and the amount of market goods it can enjoy in the long run. (c) Both (a) and (b) are correct. (d) Both (a) and (b) are not correct.	[2]	CO1
iv.	 According to the economics approach, (a) A forest owner who does not allow any trees to be cut for lumber despite offers would always be considered using the resource inefficiently. (b) A forest owner who does not allow any trees to be cut for lumber despite offers would always be considered using the resource efficiently. (c) A forest owner who does not allow any trees to be cut for lumber despite offers would be considered using the resource efficiently if benefits of letting trees stand exceed the amount of offers made for lumber. (d) A forest owner who does not allow any trees to be cut for lumber despite offers would be considered using the resource efficiently if the amount of offers made for lumber exceed benefits of letting the trees stand. 	[2]	CO1
V.	Which is the efficiency rule? (a) Equalizing social MB to social MC. (b) Equalizing MC across all plants to achieve the desired level of emission reduction.	[2]	CO1

(c) Equalizing total net benefit to zero.(d) None of the above.			
` '	ECTION B		
Q2. Differentiate between willingness to pay and	d willingness to accept.	[4]	CO1
Q3. Explain the existence and bequest value of a	nn environmental good.	[4]	CO2
Q4. You are supposed to assess the Environment Explain the methodology which you will enrequirements.		[4]	CO3
Q5. State and explain the steps for employing Treconomic values of a Biodiversity/ National		[4]	CO3
Q6. State the advantages of Costs-Benefit Analy conservation of environmental Capital.	rsis in the allocation of resources for the	[4]	CO2
S	ECTION-C		
of Cost-Benefit Analysis.	eto Improvement" as an underlying principle	[5]	CO3
	$= 10 - 2x_1 = 5 - 3x_2$	[5]	CO4
	Environmental Kuznets Curve, and why is	[5]	CO4,5
Q10. "To the extent the emission of fund pollut environment; they accumulate and share so When the emission rate is low enough, how	"To the extent the emission of fund pollutant exceeds the assimilative capacity of the environment; they accumulate and share some of the characteristics of stock pollutants. When the emission rate is low enough, however, the discharge can be assimilated by the environment, with the result that the link between present emission and future damage		CO5
	ECTION-D		1
orchid owner since the bees pollinate the ap orchard. Unfortunately, there are not enough and pollination costs are Rs. 10 per acre. The 10 <i>H</i> + 10 and marginal cost MC = 10 +2H yields Rs. 20 worth of honey. a. How many hives would the beekeep farmer? b. What is the socially efficient number	a. How many hives would the beekeeper maintain if operating independently of the farmer?b. What is the socially efficient number of hives?		CO4,5
results are given in the following table: Attribute Endangered Species Afforestation Research & Education Cost	Coefficient. 0.76867 0.40578 0.52253 -0.0062	[15]	CO5
]	Research & Education	Research & Education 0.52253 Cost -0.0062	Cost 0.40378

	Calculate willingness to pay for Endangered Species, Afforestation and Research &		
	Education		
Q13.	"The fundamental presumption of Environmental Economics is that the environment		
	and economy are inter-linked and inter-dependent entities and, therefore, changes in one		
	affect the other. Traditional economics does not explicitly take into consideration the	[15]	CO5
	inter-dependence between economy and environment and does not seek to explain how	[15]	
	economic decisions affect environment and vice-versa". Explain with reference to the		
	context.		