Registration No :											
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Total Number of Pages: 01

B.Tech HSSM3303

6th Semester Back Examination 2018-19 ENVIRONMENTAL ENGINEERING AND SAFETY

BRANCH : AEIE, AERO, AUTO, BIOMED, BIOTECH, CHEM, CIVIL, ECE, EEE, EIE,

ELECTRICAL, ETC, IEE, MINERAL, MINING

Time: 3 Hours Max Marks: 70 Q.CODE: F526

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

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Q1	a) b) c) d) e) f) g) h) i)	Answer the following questions: What is an ecological pyramid? Define the Turbidity of water. What is flocculation? What do you mean by noise pressure level? Give the relationship between ultimate BOD and COD of wastewater. Differentiate between solid waste and hazardous waste. What are environmental gradients? Name the NO _x gasses. Name two accidents that can occur in a steal industry. Give the name of two Secondary air pollutants.	(2 x 10)
Q2	a) b)	Briefly describe about the gross physical properties of water. Discuss about the function of alum as a coagulant.	(5) (5)
Q3	a)	Define environmental gradient. Show how the environmental gradients decide the tolerance level with a neat sketch?	(5)
	b)	A wastewater sample contains 100 mg/L ethylene glycol ($C_2H_6O_2$) and 120 mg/L phenol ($C_6H_6O_2$). Determine the COD and TOC.	(5)
Q4	a)	What are biogeochemical cycles? Discuss about carbon cycle with a neat sketch.	(5)
	b)	Briefly discuss about global warming. How is greenhouse effect related to it?	(5)
Q5	a)	efine a food chain. Give a brief account of different type of food chain with a	(5)
	b)	neat sketch. Discuss about food web. Define environment, ecology and ecosystem. Discuss about the component of ecosystem.	
Q6		Define noise pollution. Discuss about the sources of noise pollution. Discuss about the effects of noise pollution on human being, plants and animals.	(10)
Q7		Give brief discussion on air pollution meteorology.	(10)
Q8	a) b) c)	Write short answer on any TWO : Land filling Criteria air pollutants Personal safety equipment	(5 x 2)

d) EIA