Registration No:													
Total Number of Pages:02		210		2′	210		210		²¹⁰ B.Tech HSSM3303			210	
5 th Semester Back Examination 2017-18 ENVIRONMENTAL ENGINEERING AND SAFETY BRANCH: AEIE, BIOMED, CHEM, CIVIL, ECE, EEE, EIE, ELECTRICAL, ETC, MANUFAC, MANUTECH, MINERAL, MINING, PE, PLASTIC, TEXTILE 210 210 210 Time: 3 Hours 210 Max Marks: 70 Q.CODE:B160 Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks.										210			
Q1 ₂₁₀ a) b) c)	Answer the followhat are the abid Define Food chair Compute the pH of	itic comp	onents o	of an e	•		Give		mples	210	(2 x	c 10)	210
d) e) f) g) 210 h) i)	What is Energy B What do you mea What are the obje Differentiate betw Explain in brief Er List the compone What is meant by	udget? n by envects of Ereen BOE nvironme	ironmen vironme and Contal aud ntal aud	ital tole ent Prof DD. iting.	erance tection	?	, 198			210			210
Q2 a) 210 b)	What do you mea energy transform two laws of therm Explain the salien	ation thro odynami	ough an cs.	ecosy	stem	can I	be ex	xplain				5) 5)	210
Q3 a) b)	Give a flow sheet wastewater and or Derive the expressible First Order res	iscuss or ssion for	n it. Hydrau	ic Ret	entior	n Tim	ie (H	RT) (Consi	dering	Ī	5) 5)	
Q4 ₂₁₀ a)	The sewage of quantity of sewage 250mg/l. If the disthet BOD of dilute. What should be the diluted water to 2	ge produ scharge i d water. ne river d	ced per n the riv	day is er is 2	8 mi 00l/s	llion and i	liters ts BC	, and DD is	l its E 6mg/	BOD is	(6)	210
b)	Name important p		of haza	ardous	waste	9.					(4)	
Q5 ₂₁₀ a)	What is atmospher plume dispersion			Sketch	and e	xplai	n Loc	ping	and I	Lofting	(5)	210
b)	Briefly explain ho			red as	a proj	ect m	nanaç	geme	nt too	ol.	(5)	

Q6 a	Write the concept of source, medium and receptor with respect to noise pollution. The average day time noise power level in an industrial area is 67 dB and night time noise power level is 55dB. Find out equivalent noise power level in the area. Assume day time and night time as from 6AM to 9PM and 9PM to 6AM respectively. What is noise standard? Discuss various elements of noise (5)								
Q7 ₂₁₀ a	Define system safety engineering. What do you understand by system (5) safety techniques and what are the stages associated with system safety? What is environmental audit and what are its benefits? Write the programme planning for an effective environmental audit.								
Q8 a a b c c	Flue-gas desulph Chlorine demand	radient and tolerand tolerand Notes and Notes and Diese and break poin	Ox removal. t chlorination.	vironmental facto	•	5 x 2) 210			
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