

## END TERM EXAMINATION (May, 2017)

al Science	: Environment	Subject: F	-	. 1		Code: BAS 106	Subje
	Maximum N	Jubject. E		<u>-</u>		Hours	
viai kā . Go	IV	II III and IV	each unit I	uestion from the	tempt any One o	1 is compulsory.	Note:
		n, m and iv	1	/			
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		as?	nd natural g	pounds from oil a	remove "S" comp	ny Is it necessary	U)
				UNIT-I			
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red in India	rvesting practic	water harv	urce? How is	serve water reso	proaches to con:	at are the major	(D)
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(3,4,3			onle	ests and tribal ne	dams on the for	cuss the impacts	(a) [
	-l2	give evemel	face mining	ning and subject	ind by surface mi	at do you unders	(b) \
	ipies?	give exampl	efore the de	ary to have FiA	Why is it necess	at is meant by El	(c) \
ct?	nt of any projec	velopment	crore the de	. · ·			
			;	. UNIT-II			
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(6,2,2	100		أنيذر	rand mathada ta	s harmful affects	cribe sources, sir	(a) [
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to	hazardous was	remove ha	processes to	Mention physical	ste classified? M	v are hazardous	(b) H
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	END TERM EXAMINATION (May, 2018)
Suk	oject Code: BAS 106 Subject: Environmental Calculation
Tim	ne : 3 Hours
Syn	te: Q1 is compulsory. Attempt one question each from the Units I, II, III & IV. Various scientific abols have their usual meanings.
	and medings.
Q1	Attempt any five (4x5=20)
	(a) What is Atom Economy? Explain it with suitable example
	(b) What are the advantages of Catalytic Cracking over Thermal Cracking? (C) Explain the Formation of Acid Rain
	(d) Explain the following terms with suitable examples.
	(1) Antagonism (2) Synorgism
	(e) Give the importance of use of Promoters and Photogonsitions in pale
	(f) Discuss the concept of Conflicts Over river Water in Indian scenario.
22	<u>UNIT-I</u>
ų2	(a) Explain the Threats to Biodiversity. (5,3,2)
	(b) What do you understand be an in
	<ul><li>(b) What do you understand by surface mining and sub-surface mining processes?</li><li>(c) Explain the term Desertification.</li></ul>
Q3	
	(a) Discuss the harmful effects of Fertilizers and Pesticides on Modern Agriculture.  (5,3,2)
	(b) How is Order Nutrition different from Malnutrition
	(c) How is Water Harvesting practiced in India?
	<u>UNIT-II</u>
24	(a) What is Photoshaminal Survey (5,5)
	(a) What is Photochemical Smog? Describe the Chemistry involved in the face
	(b) How are the impurities removed from waste water using secondary and Tertiary Treatment process?
15	42.21
	(a) Discuss Zero Waste Technology with suitable examples. (4,3,3)
	(b) Explain the concept of Carbon credits discussing its applicability for Indian scenario.
	to vitat is co2 sequestration? How CO2 is sequestered artificially?
6	<u>UNIT-III</u>
	(a) What is Regenerative Principle of Heat Economy? How is it used in manufacture of coke?  (b) A boiler is fired with a coal with several life of the control of the contr
	and by volume) (iii) Percentage composition of dry flue gas, if 25% excess air is used. (Gross C.V. in kcal/kg: C=8080; H=34500; S=2240)
7	
	(a) A gaseous fuel has the following composition by volume. CH <sub>4</sub> =5%; H <sub>2</sub> =20%; CO=25%; CO=25%;
	CO <sub>2</sub> = 6%, and rest nitrogen. If 20 % excess air is used for combustion, then calculate volume of air supplied per m <sup>3</sup> of find and seems.
	volume of air supplied per m³ of fuel and composition of dry flue gases.  (b) Explain the following (i) Biodiesed (ii) Parameters (iii) Parame
	(c) What is the relation between chemical structure and knocking in petrol engine?

Q8 <u>UNIT-IV</u>	
(a) Enumerate various forms of Mercury (Hg). Describe its sources and Biochemical (b) Differentiate between Hydro-Biodegradable and Photo-Biodegradable Polymers. mechanism of degradation of Photodegradable Polymers.	(5,5) Effects. Give the
Q9	
<ul> <li>(a) Write a short note on the following terms by giving suitable examples.</li> <li>(i) Acute Toxicity and Chronic Toxicity</li> <li>(ii) Explain the term ED<sub>50</sub> and TD<sub>50</sub> in toxicology</li> <li>(b) Discuss the thermal degradation of plastics during the recycling process.</li> </ul>	(5,5)
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