Question Paper Code: 21458

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Eighth Semester

Marine Engineering

GE 2021/GE 32/GE 33/HS 1201/10177 GE 001/080100016/080380015 — ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to Sixth Semester - Petroleum Engineering, Fifth Semester Mechanical Engineering, Aeronautical Engineering, Automobile Engineering,
Electronics and Communication Engineering and Production Engineering,
Third Semester - Civil Engineering, Computer Science and Engineering,
Information Technology, Textile Chemistry, Pharmaceutical Technology,
Petrochemical Engineering Fourth Semester - Biomedical Engineering and
also common to 10177 GE 001 for Fifth Semester - Textile Technology)

(Regulation 2008/2010)

(Common to PTGE 2021 - Environmental Science and Engineering for B.E. (Part-Time) - Second Semester Electronics and Instrumentation Engineering, Electrical and Electronics Engineering, Textile Technology and Third Semester -Civil Engineering - Regulation 2009)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A $-(10 \times 2 = 20 \text{ marks})$

- What are the main objectives of environmental awareness?
- Distinguish between food chain and food web.
- 3. Define 'Thermal pollution'.
- 4. Mention the sources of water pollution.
- 5. What are the ecological benefits of forests?
- Define the term 'Desertification'.

		100							
	7.	Wha	t are t	the urban proble	ems related to	energy?			
	8.	Define the term 'Acid rain'.							
		¥7	· TTT	VI 111 12		100			
	9.	How	is Hi	V transmitted?	100				
	10.	Wha	t is no	pulation explos	ion?				
	200	.,	c 25 pc	puniton dapion		1.5			
				· PAR	TB - (5 × 16	s = 80 mar	des)		
							7.4		
	11.	(a).	(i)	Define ecosyste	em. Give an a	account of	the structur	e and functio	ns of
				an ecosystem.					(8)
			(ii)	Name and disc	use the value	s that can	be assigned	to biodiversi	tr.
								~	(8)
					Or		The same of the sa	1	
		Chi	(3)	Explain the co	maint of cools	oleal manual	mile V	To the	(8)
		(b)	(i)	Explain the co	ncept of ecolo	gicar pyrac	HILLS.		(0)
			(ii)	Discuss the th	reats faced by	Indian bi	odiversity.		(8)
	12.	(a)	Defi	ne air pollution	What are th	e sources	of air pollui	tants? Explai	n the
			appr	each to control	of air pollutio	n.	0.		(16)
					Or		0		
		(b)	(G)	Define 'flood'.	What are the	CRUBER? W	hat measur	es should be	taken
		(0)		to mitigate flo		5			(8)
			(11)	Discuss any ty	vo methods of	solid was	te disposal.		(8)
					1	0			
	13.	(a)	(i)	What are the	purposes for	which dam	a are built?		(8)
			(11)	What is land	degradation?	Mention t	he factors r	esponsible for	
				degracation.					(8)
					Or				
		(b)	Exp	lain the role of	ndividual in	the conser	vation of nat	tural resource	88.
				(- 1				(16)
	5.4		_		9				
	14.	(m)	Exp	lain the phenon	nenon of glob	al warmin	g and factor	a contributing	(16)
					0-				(10)
					Or				
		(b)		ne the laws the			for environ	mental prote	ection. (16)
1	5. ((a) (Explain the env			posed by por	pulation expl	osion.
									(8)
			ii) I	Discuss the ro	le of inform	ation tec	chnology in	the protect	ion of
		,		nvironment ar					(8)
					Or				
			144				Ve.		
	-	(b) (a) 1	Explain the ma	jor objectives	s of family	wellare pro	grammes in	(8)
			ii) '	Write short not	es on :				
				(1) HIV and					
				(2) Value edu	cation				(8)
				value out	in the same				407