Ref No. -Ex/CE/5/T/502E//2018 (S)(OLD)

BACHELOR OF ENGINEERING (CIVIL ENGINEERING), FIFTH YR, FIRST Semester SUPPLEMENTARY EXAMINATION 2018 (OLD)

FIFTH YR, FIRST Semester Supplementary EXAMINATION (2017

SUBJECT: ECOLOGY AND ENVIRONMENTAL MANAGEMENT

Time: Two hours/Three hours/Four hours/Six hours

Full Marks 30/100

No. of	Use a separate Answer-Script for each part				
Question	Part I (Marks:50)	Marks			
	Answer any Three (3) question Two (2) marks are reserved for neatness and to the point answer. Assume relevant data if necessary				
Q1.	Write short notes on :- (any four)	4 x 4=			
a).	Lentic Environment	16			
b)	Food web				
c)	Biological magnification				
d) e)	Landscape Ecology Artificial ecosystem				
l)	Ecological pyramid				
Q2.					
a)	Define Ecology. What is its need for studying as Civil Engineering paper? What are the different subdivisions of ecology as subject?	2+3-1-5			
b)	Justify the significance and importance of solar powered ecosystem?	6			
Q3.					
a)	What do you understand by ecosystem? Explain briefly the biotic components of an ecosystem	6			
b) Q4.	What is biogeochemical cycle? What is its significance? Draw a neat labeled sketch of Phosphorous Cycle and explain briefly its significance with limitation.	10			
a)	Describe the major components of pond ecosystem with a neat sketch	Ç.			
b)	Briefly discuss on various communities normally exist in the limnetic zone in aquagramment from producer to consumers with a neat sketch. Give suitable examples.	8			

Bachelor of Engineering (Civil Engg) Supplementary Examination 2018 (Old)

(5th Year1st semester)

Ecology and Environmental Management

Time: Three Hours

Full Marks: 100

Use separate answer script for each part

(50 marks for each part)

Part-II

Answer Question No. 1 and any Two from the rest. Answers should be brief. Answer Question No. 1 first.

1.	a)	'Environmental Impact Assessment (EIA) is a REDUCTION step'-explain.	:
	b)	Why an EIA study cannot be done without the help of pollution models?	
	c)	When and for which projects was EIA started in India?	
- *	d)	Why is back ground concentration so called?	♥ . ₹ ⁴ ,
	e)	Compare LCA and EIA.	
	f)	Write the full form of (i) SEIAA (ii) DEAC (iii) MoEFCC (iv) NEPA	
<u> </u>	g)	What are given in following appendixes (i) II (ii) III A (iii) IV (iv) V of EIA notifica	ation?
	h)	Define a Professional with respect to Appendix VI of EIA notification.	
	i) .	Name the three regulatory authorities with respect to EIA.	
	j)	What is the basic limitation of EIA study in India?	2x10= 20

Bachelor of Engineering (Civil Engg) Supplementary Examination 2018 (Old)

(5th Year 1st semester)

Ecology and Environmental Management

Time: Three Hours Full Marks: 100 (50 marks for each part) a) Write all the threshold values of the projects from the Schedule: (i) Mining of Minerals (ii) Thermal Power Plants b) Name two projects or activities for which all projects belong to 'A' Category project. Write in details about the application procedure for environmental clearance. c) 6+2+5+2=15 d) Mention the basis for Screening of B type projects. a) What are the advantages of a proper public consultation step? What may be appraised for a B2 project prior environmental clearance? b) What is ToR? What is its validity? How is it responsible for minimizing the cost of an EIA c) study? Can something additional beyond ToR be added during appraisal stage? d) Comment about validity of EC. 4+3+6+2=15 Mention the General Condition & its significance. Comment about its leniency. a) What is common about Items 4(d), 4(f), 5(e), 5(f) of the schedule? b) 7+3+5=15 Discuss about time frame of appraisal. c)

