BACHELOR OF CIVIL ENGINEERING EXAMINATION (EVENING), 2018
FIFTH YR, I st Semester

SUBJECT: ECOLOGY AND ENVIRONMENTAL MANAGEMENT

Full Marks ~~30~~/100

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

Use a separate Answer-Script for each part

No. of Questions	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= 16
a)	Terrestrial ecosystem	
b)	Biological factors	
c)	Ecological system	
d)	Profundal Zone	
e)	Ecological niche	
f)	Tropic Level	
Q2.		
i)	Distinguish between two from following items (Any 3)	3x3=9
a)	Producers and Productivity	
b)	Saprotrophs and autotrophs	
c)	Lentic and Lotic environment	
d)	Reservoir pool and cyclic pool	
ii)	Explain clearly various aspects of aquatic ecosystem including its limiting environmental factors.	7
Q3.		
(a)	What is biogeochemical cycle? What is its significance? Draw a neat labeled sketch of Nitrogen Cycle and explain briefly its different components stating their significance .	9
(b)	Why Phosphorous cycle is less perfect?	3
(c)	Estuarine environment is more productive---justify the statement.	4

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Q 4.		
a)	Describe the major components of pond ecosystem with a neat definition sketch. Explain clearly the interrelationship of different ecocomponents on the basis of basic biotic and biotic units.	
b)	Explain clearly various classification on the basis of life habitat on their mode of life.	
c)	With a neat sketch discuss the importance of solar energy.	

Bachelor of Civil Engineering (Part Time) Examination 2018 (Old)

(5th Year 1st 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 waste minimization process'-explain.

   b) Write the importance of air pollution models in EIA study.

   c) How is the history of EIA and river valley projects correlated?

   d) Why is base line standard so called?

   e) Compare Environmental Audit and EIA.

   f) Write the full form of (i) LCA (ii) DEIAA (iii) MoEFCC (iv) EC

   g) What are given in following appendixes (i) I (ii) III (iii) X (iv) XI

   h) What is the basic difference between a Professional and an expert?

   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 Civil Engineering (Part Time) Examination 2018 (Old)

(5th Year 1st semester)

Ecology and Environmental Management

Time: Three Hours   Full Marks: 100

(50 marks for each part)

2. a) Write all the threshold values of the projects from the Schedule:

    (i) River Valley Project (ii) Metallurgical Industries (iii) Cement Plants

    b) Name two projects or activities for which all projects belong to 'B' Category project.

    c) Write in details about the application procedure for environmental clearance.

    d) Mention the basis for Screening   8+2+3+2 =**15**

3. a) What is the significance of public consultation?

    b) What may be appraised for a project prior environmental clearance?

    c) What is ToR? What is its validity? How is it responsible for minimizing the cost of an EIA study? Can something additional beyond ToR be added during appraisal stage ?

    d) Comment about transferability of EC.   3+3+6+2=**15**

4. a) Mention the General Condition & its significance. Comment about its leniency.

    b) What is common about Items 4(d), 4(f), 5(e), 5(f) of the schedule?

    c) Discuss about time frame of appraisal.   7+3+5=**15**