

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

(4<sup>th</sup> Year 2nd semester)

**Ecology and Environmental Management**

Time: Three Hours

Full Marks: 100

Use separate answer script for each part

(50 marks for each part)

**Part-1**

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

1.
  - a) 'EIA is a giant step towards sustainable development'-explain
  - b) Why are pollutants both measured and predicted in an EIA study?
  - c) What are the differences between an EIA study and an Environmental Audit?
  - d) Write about introduction of EIA in India.
  - e) Write about supersession of original notification for EIA.
  - f) Write about DEAC.
  - g) What may be the basic steps of an EIA study?
  - h) Give specific examples of projects whose EIA study have  
(i) 4 steps (ii) 2 steps
  - i) What may be the basic difference between draft and final report of an EIA?
  - j) Write about the main limitation of an EIA study in India.

2x10=20

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2. a) Mention threshold limits related with EIA for
- (i) River Valley projects
- (ii) Cement plants
- (iii) Distilleries
- b) Name two projects or activities for which all projects belong to 'A' Category project.
- c) Write about the application procedure for EC for an industrial project.
- d) What is base line standard? 9+2+2+2=15
3. a) Draw a flow chart showing EC procedure.
- b) What is the basis of screening?
- c) How is ToR fixed for the preparation of an EIA report?
- d) What a brief note on 'Public Consultation'. 5+2+3+5=15

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4. a) Name all the documents to be appraised for a (i) B1 project and (ii) B2 project
- b) Clearly mention the situations when the EC may be presumed by the applicant to be granted.
- c) Write a brief note about the 'validity' of EC.
- d) What are the differences between pre and post monitoring?

5+4+3+3=15

05D/20

marks: 10

ect.

2+2=15

+5=15

BACHELOR OF CIVIL ENGINEERING (PART-TIME) EXAMINATION, 2018  
IV TH YEAR, SECOND SEMESTER EXAMINATION

SUBJECT: Ecology and Environmental Management (Elective)

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

Full Marks 30/100

Use a separate Answer-Script for each part

PART - II

No. of Questions		Marks
Answer Any Three(3) questions Two marks are reserved for neatness and to the point answer Assume relevant data if necessary		
Q1.		
(a)	What do you understand by the term Ecology? State the importance and objective of study ecology as subject for Civil Engineering professional.	2+3
(b)	Enumerate and briefly describe different subdivisions of ecology.	4
(c)	What is an ecosystem? With the help of a neat labeled sketch describe pond ecosystem.	7
Q2.		
(a)	Write down clearly the difference between ecological niche and ecological factors.	4
(b)	How food web differs from food chain?	3
(c)	Describe the different type of ecological pyramids with their relative significance.	6
(d)	What do you understand by bioaccumulation and biological concentration factors?	3
Q3.		
(a)	Explain the significance of biogeochemical cycle with its relative limitations.	3
(b)	Describe nitrogen and phosphorous cycle with its salient features.	10
	Compare with diagram between lotic and lentic habitats	3
Q4.		
(a)	What are the characteristics features of Estuarine environment? Why it is more productive than surrounding ecosystem?	5+2
(b)	Describe different limiting environmental factors for fresh water ecology.	5
(c)	Explain with neat flow diagram for transference of the energy considering sun is a source of energy.	4