

**Bachelor of Civil Engineering (Part Time) Examination 2019**

(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) Why are Pollution Models essential for Environmental Impact Assessment (EIA) studies?
  - b) Why are pollutants both measured and predicted in an EIA study?
  - c) Correlate 'Waste Minimization' and EIA.
  - d) Write about legal introduction of EIA in India.
  - e) Write about supersession of original notification for EIA.
  - f) Write about SEIAA very briefly.
  - 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) Mining
  - (ii) Cement plants
  - (iii) Thermal Power Plants
- 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 background monitoring? 9+2+2+2=15
3. a) Draw a flow chart showing EC procedure.
- b) What is the basis of screening?
- c) Describe the significance of ToR.
- 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.
- 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

**BACHELOR OF ENGINEERING (CIVIL ENGINEERING ) , Fourth Year, Second Semester EXAMINATION 2019**

**SUBJECT: ECOLOGY AND ENVIRONMENTAL MANAGEMENT**

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

Full Marks 30/100

Use a separate Answer-Script for each part

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