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## P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Civil Engineering

Semester End Examination; Aug. / Sep. - 2020

Environmental Impact Assessment

T	ime: 3 hrs Max. Marks: 100
No	ite: i) Answer TWO full questions, selecting ONE full question from UNIT - I and UNIT - II.  ii) Answer any THREE full questions, choosing from UNIT - III, UNIT - IV and UNIT - V.
	UNIT - I
la.	Citing suitable example write a note on the purpose and benefits of EIA studies for a project.
b.	With examples discuss:
	i) REIA ii) CEIA iii) SEIA
c.	Illustrate the guidelines for conducting EIA of a developmental project with reference to
	Council on Environmental Quality (CEQ).
	OR
2 a.	Draw and explain the flow diagram of carrying out EIA and Environmental Impact
	Statement (EIS).
b.	Explain the importance of framework during EIA with its merits and demerits.
c.	Comment on various levels of processing a draft EIS before preparing final EIS.
	UNIT - II
3 a.	List various environmental parameters that are of importance while conducting EIA. Explain
	Air environment in detail.
b.	With example, explain the checklist method for conducting EIA with its limitations.
c.	Comment on the importance of "resources" to be considered while conducting EIA studies.
	OR
4 a.	Illustrate the significance and their effect of following environmental attributes:
	i) Water ii) Ecology iii) Sound
b.	Narrating with an example, explain matrix method of EIA.
c.	Write a note on overlay method of conducting EIA with its advantages and disadvantages.
	UNIT - III
5 a.	List various quality parameters that affect water due to project while assessing
<i>a</i> .	predicting impact.
L	Comment on the Noise environment with reference to source effects and mitigation measures
b.	
	while predicting and assessing impacts.
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6 a. Explain the consequences of predicting and assessing impact on: i) Particulate matter ii) Non-reacting gases 12 iii) Sulphur oxides iv) Hydro carbons Discuss the impact of transportation system on the components of air environment. 8 **UNIT-IV** Discuss the various steps involved in assessment and prediction of impact on soil and 8 geological condition of the location. Explain the objectives of involving public participation in conducting EIA with its pros 6 and cons. c. Comment on the mitigative measures that are to be considered while predicting impacts on 6 sand environment. Write a note on scope of public participation in EIA. Also explain various techniques that can 8 be adopted for public participation. Explain the steps involved in prediction and assessment of Impact on Socio-economic 8 component. Discuss the practical considerations of importance during EIS. 4 UNIT - V Conduct environmental impact 9. assessment for a water resource project 20 checklist method. Explain various data of importance for conducting EIA of a mining project by 10. 20 "overlay" method.

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Dr. N. L. MURALI KRISHNA

Controller of Examinations

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