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VII SEMESTER B.TECH. CIVIL ENGINEERING END SEMESTER EXAMINATIONS NOVEMBER 2018

SUBJECT: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDITING [CIE 4021]

Date of Exam: 27th November 2018 Time of Exam: 2:00-5:00PM Max. Marks: **50**

Instructions to Candidates:

❖ Answer ALL the questions & missing data may be suitably assumed

1A.	Highlight any two advantages and disadvantages each for box models and Gaussian Plume Models for modeling dispersal of air pollutants.								CO1,
1B.	Highlight any three strengths and three limitations of EIA.								CO2
2A.	Explain the different avenues by which we can deduce the initial list of factors for the description of the environmental setting.								CO1, CO2, CO5
2B.	Write an explanatory note on the importance of public participation in an EIA process and how is noise quantified using Sound pressure level.							(06)	CO1,
3A.	Describe the evolution of EIA laws in India.							(04)	CO1, CO2
3B.	Explain the terms dispersion and sorption and their combined influence on the advective flow of pollutants in soil from a continuous release source with the help of diagram							(06)	CO1, CO3
4A.	With the help of a neat diagram, briefly explain the process of selection of								CO1,
4B.	Explain leopold, stepped and component interaction matrix with the help of an example.							(06)	CO4
5A.	Briefly explain demand, scheduling, input and routing types of alternatives.							(04)	CO4,
5B.	Air Polln. Sub-index Values Parameters 2 4 8 12 16 20								
	CO (ppm) NO2	0-1 0-0.005	1-2 0.005-0.01	2-4 0.01- 0.02	4-6 0.02- 0.06	6-8 0.06- 0.10	8-35 0.10-0.20	(06)	CO1,
	Oxidants (ppm) Visibility	0-0.5 12-24	0.5-1.0 8-12	1-2 6-8	2-3 4-6	3-4 2-4	4-5 0-2		

The ambient air quality measurements for a location are as follows: CO (PPM)= 3 NO2= 0.015, Oxidants (ppm)= 1.5, Visibility= 3m. Compute the air quality index based on the sub-indices given above. Highlight any two advantages of using this method of computing Air quality over each of the other methods.

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