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B.Tech DEGREE EXAMINATION, NOVEMBER 2023

Fifth & Seventh Semester

18CEO305T - ENVIRONMENTAL IMPACT ASSESSMENT

(For the candidates admitted during the academic year (2020-2021 & 2021-20222))

Note:

i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.
 ii. Part - B and Part - C should be answered in answer booklet.

Time: 3 Hours			Max. Marks: 100			
	PART - A (20 × 1 = 20 Marks) Answer all Questions			s BL	CO	
1.	Eutrophication occurs due to the enrichment of which of these two element (A) Sulphur and Carbon (B) Carbon and Nitrogen (C) Nitrogen and Sulphur (D) Nitrogen and Phosphorus	s?	1	2	1	
2.	Organisms scavenging on dead organism are termed as (A) Producers (B) Consumers (C) Detritivores (D) Heterotrophs		1	1	1	
3.	Method to measure the human impact on natural capital/ environment is	termed as	1	1	1	
	(A) Ecological footprint (B) Ecological succession (C) Ecological niche (D) Sustainable development			×		
4.	EIA is necessary because (A) Development is bad for environment resources (C) Environmental impacts of development are of public (B) It helps in over consumption resources (D) It is mandatory process	on of	1	1	1	
5.	Which one of the following best suits the role of environmental clearance India? (A) Carry out EIA (B) Supervised by the Proposition (C) Decides whether EIA is required or not Proposal	ent	1	2	2	
6.	Environmental protection act was implemented in (A) 1966 (C) 1986 (D) 1996		1	1	2	
7.	11	alled	1	2	2	
8.	Major difference between EIA and ERA is the absence of (A) Mitigation measures (B) Impact assessment (C) Impact prediction (D) Public participation		1	2	2	
9.	the allest an its discount amitted in uniform	y mixed	1	1	3	

10	 Among the following statement which Groundwater quality of an area? (A) Infiltration of leachate from solid waste 	(B) Infiltration from surface water	f 1	2	3
	(C) Evaporation of soil pore water	runoff (D) Interaction of plant roots with soil water			
11.	Fill in the Arnstein's ladder of Publ Information, Consultation, Placation, (A) Internship (C) Partnership	ic Involvement: Manipulation, Therapy, _, Delegated Power, Citizen control. (B) Fellowship (D) Scholarship	, 1	1	3
12.	Expert system involves: (A) Group of experts conducting EIA process	(B) Knowledge based software	1	1	3 "
	(C) Governmental official reviewing EIA process	(D) Group of environmental experts			
13.	The method used for conducting EIA proce (A) Vague (C) Systematic	ess should not be (B) Simple (D) Organised	1	1	4
14.	One of the major disadvantages of Checklis (A) It's preparatory stage in matrix assessment	(B) It does not identify higher order impacts	1	2	4
15.	(C) It's interdisciplinary natureScreening is done to(A) Understand the impact of project	(D) Simple to use (B) Assess the quality of the project	1	1	4
	(C) Disseminate the decisions to public	design (D) Determine whether a full EIA needed			v
16.	During suggestion of alternative, The impact (A) Ignored (C) Omitted	ct caused by alternative is (B) Considered (D) Not included	1	1	4
17. _∞	Which of the following is non point environment?		1	1	5
	(A) Discharge of Industrial Effluent	(B) Discharge of treatment plant effluent			
	(C) Discharge from domestic sewers	(D) Discharge through agricultural runoff			
	E-waste generated from small household app (A) Ferrous metals (C) Plastics	pliances consists more amount of (B) Non- ferrous metals (D) Glass	1	1	5
	Which environmental principle best reflects (A) Polluter pays (C) Reduce reuse recycle	the intent of EIA? (B) Prevention is better than cure (D) Reduce and reuse	1=	2	5
	The most common pollutant released from T (A) Metals (C) Nutrients		1	2	5
	PART - B $(5 \times 4 = 20)$ Answer any 5 Que	Marks)	Marks	BL	со
21.	Distinguish between Rapid Environmental Environmental Impact Assessment	Impact assessment and Comprehensive	4	4	1

		explain briefly the evolution of Environmental Impact Assessment	4	2	2
	1	Explain the steps involved in prediction and assessment of Impact caused due to a textile industry in a riverine system	4	. 3	3
1	24.	What are alternatives? How they are important in EIA process?	4	4	4
		Write a note on any two Man made disasters in India.	4	1	5
	26.	Write short notes on 'Ecological Succession'	4	1	1
	27.	Write short notes on Cost benefit analysis.	4	2	4
		PART - C (5 × 12 = 60 Marks) Answer all Questions	Mar	ks BL	со
	28.	(a) Explain in detail with neat a sketch on the natural and anthropogenic impact of nitrogen cycle.	12	1	1
	2	(OR) (b) Explain in detail, the natural and anthropogenic impact of Phosphorous cycle with a neat sketch.			
	29.	(a) With a neat sketch, explain generic steps in EIA process. (OR)	12	2	2
		(b) Elaborate on "World bank environmental agenda".			
):	30.	(a) Explain in detail the "Assessment and prediction of impacts on Groundwater environment".	12	3	3
		(OR)			
		(b) Explain in detail the 'Assessment and prediction of impacts on biological environment".			
	31.	(a) Explain in detail application and significance of Leopold matrix in impact prediction and assessment.	12	3	4
	÷-	(OR) (b) Explain in detail application of Network method in impact prediction and assessment.			
3	32.	(a) Explain with a case study, the steps involved in conducting an impact assessment for a thermal power plant. (OR)	12	1	5
		(b) Explain with a case study, the steps involved in conducting an impact assessment for a solid waste disposal yard.			

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