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Continuous Assessment Test (CAT) – I – January 2019

Programme	: B.Tech. (All Branches)	Semester	: Winter 2018-19
Course	: Environmental Sciences	Code	: CHY1002
Faculty	: Dr. Sumit Mittal	Slot/Class no.	: F2+TF2 /1468
Time	: 1½ hours	Max. Marks	: 50

Answer all the Questions

Q. No .	Sub. Sec.	Question Description	Marks	Module No.	Level	Hot ?	ABE T criterion
1	(a)	Elucidate the process of ecological succession with the help of processes involved in it.	5	1	M	N	A
	(b)	In recent times in, cows have become one of the most important symbols of religious or nationalistic sentiment in India. In several states across the nation, law, as well as vigilantism, work towards cow “protection”, by animal worshipping, providing cow-shelters and banning cow-slaughter. Discuss some direct and indirect ramifications/consequences of such nationwide animal worship and protection schemes from an ecological point of view? Think and suggest alternative strategy to tackle the situation while ensuring the welfare of cows.	5	1,2	D	N	A
2		Explain how ammonia and nitrates move in the ecosystem. How is it affected by the human activities?	8	1	M	Y	K
3	(a)	Explain the positive and negative aspects of genetically modified food with a suitable example.	5	2	E	N	A
	(b)	Write short notes on threats and conservation of aquatic biodiversity.	5	2	M	Y	K
4		1. Deep ocean exploration has resulted in the discovery of abundant and variety of life in deep ocean floor, which are otherwise considered as unsuitable for the survival of life region. How does life survive in such places? How does energy flow in such ecosystems? 2. Approximately 300 million tons per year Methane (CH ₄) is produced by archaea in deep ocean. What prevents its emission into	8	1	D	Y	K

		the atmosphere? What would have been the consequences if such high amount of methane was releases in the atmosphere?					
5		<p>I. India is considered as mega biodiversity nation. Justify.</p> <p>II. “A harsh Arctic ecosystem can have a much shorter food chain/less complex food-web than a tropical one.” Justify the statement.</p>	10	2	M	Y	E
6		<p>Explain the following with examples:</p> <ul style="list-style-type: none"> • Extinct species • Endangered Species • Endemic species • Rare Species 	4	4	E	Y	E

