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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022

(Second Semester)

Branch - ENVIRONMENTAL SCIENCE

WATER POLLUTION AND MANAGEMENT

Time: Three Hours		Maximum: 50 Marks	
A	SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks		$(5 \times 1 = 5)$
	1-maitre at?		
1. Water has its maxir		() 0°C	(d) -4°C
(a) 100°C	(b) 4°C	(c) 0°C	(a) -4 O
	ne lake or pond is called		(1) Limentia zona
(a) Euphotic zone	(b) Benthic zone	(c) Littoral zone	(d) Limnetic zone
3. What is the most co	ommon used coagulant?		
(a) Alum	(b) Ferric sulphate	(c) D Limestone	(d) Coal
4. Activated carbon is classified as which type of treatment?			
(a) Preliminary	(b) Primary	(c) Secondary	(d) Tertiary
5. Which is the first s	tate to provide 100 per	cent tap water supply	in India?
(a) Karnataka	(b) Goa	(c) Delhi	(d) Kerala
	SECTION - E Answer ALI	L Questions	$(5 \times 3 = 15)$
	ALL questions carry	EQUAL marks	$(3 \times 3 - 13)$
	about the advantages of about the advantages of	` }	•
b) Briefly explain	the Hendry's law and i	ts significances in we	tland water quality.
	ne water borne diseases (OF	()	
b)Draw and expla	in the zones of lakes an	d ponds.	
•	features of drinking wa (OI	()	tou tuo atmant
b) Explain the rol	e of sedimentation tank	in primary waste was	er treatment.
	ote on waste water stand (Ol	K) -	
	vo sludge management		
•	auses of ground water p (O	K)	
b) Discuss the or	ganizational set of cent	ral ground water boar	a.

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL marks

 $(5 \times 6 = 30)$

- 11. a) Discuss the merits and demeritsmega reservoirs in Indian context.
 - b) Sketch hydrological cycle and explainits influencing factors.
- 12. a) Determine the sources, effects and control measures of BOD in a waterbody.
 - (OR)
 b) Enumerate the various sources and impacts of ocean pollution.
- 13. a) Assess and explain the common drinking water purification techniques. (OR)
 - b) Elucidate the details of secondary waste water treatment process.
- 14. a) Explain the major tertiary wastewater treatment methods.

(OR)
b) Discuss in detail the ZLD concept in wastewater treatment.

- 15. a) Analyze the functions and challenges for central ground water board.
 - (OR)
 b) Assess the current status of river linking projects in Tamil Nadu perspective.

END