# PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

### MSc DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

#### Branch - ENVIRONMENTAL SCIENCE

#### **CLIMATE CHANGES AND MANAGEMENT**

Time: Three Hours			Maximum: 50 Marks	
SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)				
1.	The major objective of Kyoto protoco (i) Protect ozone layer (iii) Reduce greenhouse gases emission		(ii) Reduce Carbon die	oxide emission
2.	'London smog' is formed as a result (i) Burning nitrogenous matter (iii) Burning carbon	(ii)	Burning sulphur comp Burning wood	ponents
3.	Country to implement carbon tax for (i) New Zealand (iii) Australia	(ii)	irst time. China India	
4.	Mount Kilimanjaro is volcano. (i) Active (iii) Passive		Extinct Dormant	
5.	In which year CRZ was issued in Inc (i) 1998 (iii) 2000	(ii)	1991 2001	

#### SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks  $(5 \times 3 = 15)$ 

6. a Differentiate between climate and weather.

- b Classify the Indian monsoon seasons.
- 7. a State the greenhouse gas emission on aviation sector.

OR

- b Elaborate on particulate matters and associated health issues.
- 8. a Discuss the various carbon sink and sources to combat climate change.

b Explain the significance of carbon stock assessment.

Cont...

9. a What are volcanic eruptions? Categorize the types of volcanoes with suitable examples.

OR

- b What are natural disasters? Analyze the risk factors of forest fires.
- a Classify the various zones according to CRZ notifications.

OR

b Analyse the significance of various disaster warning systems.

## SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11.a Differentiate El Niño and La Niña. Critically analyze the role of humans induced climate variability.

OR

- b Elucidate the land use patterns influence on global warming.
- 12.a Evaluate the various sources of greenhouse gas emissions from agricultural sector.

OR

- b How do polar ice melting affect biodiversity resources?
- 13.a Assess the various initiatives by Government of Tamil Nadu pertaining to net zero commitments.

OF

- b Critically analyze the India's INDC Commitments to combat climate change.
- 14.a Interpret the different factors affecting the severity of seismic forces.

OR

- b Categorize the different types of droughts with examples.
- 15.a Explain the steps involved in Disaster Management Cycle.

OR

b Design disaster management and prevention plan associated with floods.

Z-Z-Z

END