

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022
(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 prediction of weather over the next 3 to 5 working days is called
(i) Weather forecast (ii) Climate forecast
(iii) Weather update (iv) Warning of weather
- 2 Which of the following GHG has high global warming potential?
(i) N₂O (ii) SF₆
(iii) CO₂ (iv) CH₄
- 3 The hockey stick graph in climate change indicates
(i) Increase in weather extremes (ii) Increase in drought
(iii) Increase in sea level (iv) Increase in global temperature
- 4 The concept of carbon credit originated from which one of the following?
(i) Kyoto protocol (ii) Earth summit
(iii) Doha summit (iv) Montreal Protocol
- 5 As per CRZ notification, NDZ refer to ...
(i) New development zone (ii) No discharge zone
(iii) No development zone (iv) None

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Differentiate the terms climate and weather.
OR
b List out the major functions of UNFCCC.
- 7 a Discuss about factors that influence urban climate.
OR
b Explain the concept of enhanced greenhouse effect.
- 8 a How sea level rise influence global coastal cities?
OR
b State the causes and effects of desertification.
- 9 a Discuss the salient features of Montreal Protocol.
OR
b Discuss the advantages of hybrid fuel technology.
- 10 a Explain the merits and demerits of carbon credit.
OR
b Recommend the few green labelling benefits.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Spell out the role of WMO and IMO in weather forecasting.
OR
b Enumerate the international collective actions on climate change.
- 12 a Compare El Niño and La Niña in detail.
OR
b Elucidate the sector-wise greenhouse gas emission status.
- 13 a Explain the climate change impact on biodiversity resources.
OR
b Interpret the role of climate change on human health.
- 14 a Itemize the sector-wise mitigation measures to address climate change.
OR
b Discuss and highlight significant outcomes of Conference of Parties 21 (COP 21).
- 15 a Write the detailed notes on coastal regulation zone notification 1991.
OR
b Summarise the various missions of National Action Plan on Climate Change.

Z-Z-Z

END