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63/2 (SEM-2) GGY 206 (OE) (B)

2022

GEOGRAPHY

(Theory Paper)

Paper Code : GGY 206 (OE) (B)

(Climate Change and Adaptation)

Full Marks – 50

Time – Two hours

**The figures in the margin indicate full marks
for the questions.**

1. Multiple choice type questions (*all compulsory*) :
1×5=5

**(i) Which of the following is (are) the
anticipated effect(s) of Global Warming ?**

- (a) Rising sea level**
- (b) Changing precipitation**
- (c) Expansion of desert**
- (d) All of the above**

[Turn over

(ii) The greenhouse effect is mainly due to the increase in atmosphere

- (a) Nitrogen (b) Carbon dioxide
(c) Ozone (d) Carbon monoxide

(iii) Rise in water level in oceans and seas due to melted ice sheets and glaciers causes

- (a) desertification
(b) destruction of human settlement
(c) destruction of infrastructure
(d) endangering of species

(iv) Since the industrial revolution, ocean acidity has increased by

- (a) 25% (b) 30%
(c) 35% (d) 40%

(v) Which among the following is a fragile coastal desert ecosystem ?

- (a) Atacama desert
(b) Gibson desert
(c) Kalahari desert
(d) Sonaram desert

2. Very short answer type questions (*all compulsory*)
2×5=10

- (i) What is the difference between climate and weather ?
(ii) Define climate change.
(iii) When is an ecosystem considered as fragile ?
(iv) Name four major coral reef ecosystem of the world and its location.
(v) What is an eremology ?

3. Short answer type questions (5 out of 7) :
5×5=25

- (i) How greenhouse gas can increase the temperature of the atmosphere ?
(ii) Write a short note on change in temperature of the earth since cretaceous period.
(iii) Differentiate between climate hazard and disaster.
(iv) Explain briefly about the factors of vulnerability.
(v) Write the significance of a desert ecosystem.

- (vi) What is Great Green Wall ? Highlight its role towards conserving fragile ecosystem.
- (vii) Write a short note on the relationship between global warming and fragile ecosystems.

4. Descriptive answer type questions (1 out of 2) :
10×1=10

- (i) Explain in detail the major approaches to understand climate change. 10
- (ii) What is coral reef ? Explain the significance and major global threats to the existing coral reef ecosystem. 2+8=10