



UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program /Eighth Semester – 2019

Paper: Challenges of a Changing Earth

Course Code: BOT-413 Part – I (Compulsory)

Time: 15 Min. Marks: 10

Roll No. in Fig.

Roll No. in Words.

Signature of Supdt.:

ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

- (i) Thickness of Troposphere at poles is
(a) 5 km (b) 7 km (c) 8 km (d) 10 km
- (ii) Temperature increase due to Global warming would be more than other regions of the world at
(a) Polar region (b) Tropical region (c) Temperate region (d) Deserts
- (iii) Contribution of CO₂ to Global Warming is
(a) 80% (b) 70% (c) 60% (d) 50%
- (iv) Ozone hole is located on
(a) Arctic (b) Equator (c) Antarctic (d) Alpine
- (v) Cryosphere is the part of the climate system that includes
(a) Snow (b) All forms of Ice (c) Permafrost (d) All a, b and c
- (vi) Dams built on the rivers
(a) Regulate river flow (b) Trap sediments (c) Increase consumption of river water (d) All a, b and c
- (vii) Percentage proportion of the total number of animal and plant species living in the tropical rain forests is more than
(a) 60% (b) 50% (c) 45% (d) 40%
- (viii) Which one of the following gases is not included in the category of greenhouse gases?
(a) Methane (b) Hydrogen (c) CO₂ (d) Nitrous Oxide
- (ix) Which of the following air pollution control device is suitable for removing the finest dust particles from air?
(a) Cyclone separator (b) Electrostatic precipitator (c) Fabric Filter (d) Wet scrubber
- (x) In the 21st century, sea level rise is not likely to exceed
(a) 90 cm (b) 80 cm (c) 70 cm (d) 60 cm



ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write brief notes on the following

(5x4=20)

- (i) Atmospheric inputs to the oceans
- (ii) Major functions and climate change threats to Phytoplankton
- (iii) Effects of Dams on Deltas and Estuaries
- (iv) Causes and Effects of Acid Rains in North East Asia
- (v) The Biodiversity Convention

Q.3. What is Cryosphere? How does it contribute to global climate change? (10)

Q.4. Critically discuss pressures of Anthropogenic activities on the Coastal Zones of South East Asia and subsequent impacts on Coral and Mangrove Ecosystems. (10)

Q.5. Give a detailed account of emissions from oceans to the atmosphere and their role in the Biogeochemical cycles and climate regulation. (10)