

REV-01
MEV/04/10

2023/12

M.Sc. ENVIRONMENTAL SCIENCE
FIRST SEMESTER
CLIMATE CHANGE: SCIENCE & IMPACTS
MEV – 103
(USE OMR FOR OBJECTIVE PART)

SET
A

Duration: 1:30 hrs.

Full Marks: 35

Time: 15 min.

Marks: 10

(Objective)

Choose the correct answer from the following:

$1 \times 20 = 20$

1. Average temperature of the earth is
 - a. 15 °C
 - b. 33 °C
 - c. -18 °C
 - d. 50 °C
2. Which is correct for greenhouse gases (GHGs)?
 - (1) GHGs absorb all types of solar radiation
 - (2) GHGs absorb outgoing long wave radiation
 - (3) Some non-GHGs can also absorb IR radiation
 - (4) Some GHGs absorb short wave radiation
 - a. All are correct
 - b. 2 and 3 are correct
 - c. 2 & 4 are correct
 - d. 2, 3 & 4 are correct
3. Albedo of the earth is
 - a. 30%
 - b. 50%
 - c. 70%
 - d. 90%
4. Which of the following is more powerful greenhouse gas?
 - a. Carbon dioxide
 - b. Water vapour
 - c. Nitrous oxide
 - d. CFC
5. Which one of the following is the anthropogenic radiative forcing of climate?
 - a. Aerosols
 - b. Cement
 - c. Paper
 - d. Glass
6. Which of the following organization was formed in 1988 jointly by UNEP and WMO?
 - a. UNFCCC
 - b. IPCC
 - c. FAO
 - d. Greenpeace
7. When was the Doha Amendment come into force?
 - a. 12 December 2012
 - b. 8 December 2012
 - c. 4 December 2012
 - d. 20 December 2012
8. When National Action Plan on Climate Change is launched in India?
 - a. 5 June 2008
 - b. 30 June 2008
 - c. 1 June 2008
 - d. 24 June 2008

9. On 11 December 1997, _____ was adopted.
- a. Paris Agreement
 - b. Kyoto Protocol
 - c. Durban Action
 - d. None of the above
10. How many National Missions are targeted in NAPCC?
- a. 5
 - b. 8
 - c. 10
 - d. 17
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(Descriptive)

Time : 1 hr. 15 min.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. Discuss enhanced greenhouse effect. 5
2. Discuss climate change impacts on forests and fresh water ecosystems. 10
3. Write short note on (any two) 5+5 = 10
 - a. Greenhouse gases in the atmosphere
 - b. Projected impact of climate change in India
 - c. UNFCCC
 - d. National Water Mission
4. Critically discuss the working and role of IPCC. 10
5. Write a brief note on National Action Plan on Climate Change. Write about the National Missions under this Action Plan. 2+8 = 10

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