

Term End Examination : June – 2018
Certificate in Climate Change and Sustainable Development
Climate Change: Challenges and Choices

Time: 3 hours

Full Marks: 100

Read the instructions carefully before attempting questions from each group.

GROUP – A

Q.No. 1. Answer all questions selecting the right options. Each carries 1 Mark [1 X 10 = 10]

- (i). Zoos are examples of;
 a) in situ conservation
 b) in vivo conservation
 c) ex situ conservation
 d) ex vivo conservation
- (ii) Which one of the following is a bio-sphere reserve
 a) Chilika
 b) Bhitarkanika
 c) Satkosia
 d) Similipal
- (iii) Water pollution can be identified by testing its;
 (a) PH level
 (b) Biological Oxygen Demand (BOD)
 (c) Chemical Oxygen Demand (COD)
 (d) All the three above i.e (a), (b) & (c)
- (iv) When combustion of coal takes place in insufficient air (oxygen) which gas is formed .
 instead of carbon dioxide
 (a) Sulphur dioxide
 (b) Nitrous oxide
 (c) Carbon monoxide
 (d) Nitrogen peroxide
- (v) Fossil fuel and metallic minerals are:
 (a) Renewable resource
 (b) Inexhaustible resources
 (c) Non-renewable resources
 (d) None of these
- (vi) When fluoride concentration in H₂O exceeds about 1.5 mg/l, the disease that may be
 caused, is
 (a) Dental caries in children
 (b) Fluorosis
 (c) Polymyelitis
 (d) Methemoglobinemia
- (vii) Which of the following is NOT expected to be a future impact of climate change?
 a. Sea level rise will flood coastal wetlands, real estate
 b. Agriculture and forestry may have mixed results
 c. Ecosystems will be altered; some will disappear
 d. Freshwater will become more abundant
- (viii) Which pollutant is involved when air pollution over cities interacts with sunlight, heat,
 oxygen, and other chemicals?
 a. Nitric oxide
 b. Nitrogen dioxide
 c. Tropospheric ozone
 d. All of the above

(ix) Social, economical and ecological equity are the necessary conditions for achieving

- (a) Social development
- (b) Economical development
- (c) Sustainable development
- (d) Ecological development

(x) A chemical industry is not a cause of:

- (a) Air pollution
- (b) Noise pollution
- (c) Water pollution
- (d) Nuclear pollution

GROUP – B

Q.No. 2. Answer any 4 questions each within 50 words. Each carries 5 marks [5 X 4 = 20]

- (i) Water Harvesting
- (ii) Ground Water Depletion
- (iii) REDD Data Book
- (iv) Sustainable Agriculture
- (v) Endangered Species
- (vi) Biodiversity

GROUP – C

Q.No.3. Answer any 4 questions each within 200 words. Each carries 10 Marks [10 X 4 = 40]

- (i) Describe the impact of climate change on water quality.
- (ii) Explain the impact of climate change on forest?
- (iii) Give a brief account of ICZM (Integrated Coastal Zone Management)
- (iv) Discuss the role of climate change on food security.
- (v) Briefly explain how anthropogenic interferences affect the coastal ecosystem.
- (vi) Discuss the inter relationship between climate change and mass extinction.

GROUP – D

Q.No.4. Answer any 2 questions each within 250 words. Each carries 15 Marks. [15 X 2 = 30]

- (i) Describe the different methods of Biodiversity conservation.
- (ii) Explain the impact of climate change on the nexus between food, energy and water.
- (iii) Write an account of the impact of climate change on coastal dynamics.
- (iv) Discuss the role of climate change on ground water resources.

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