

PGIS-N 1079 B-18
M.Sc. I Semester (CBCS) Degree Examination
ENVIRONMENTAL SCIENCE
(Fundamentals of Environmental Science)
Paper - H.C.T. 1.1
(New)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) *Answer all Sections.*
- 2) *Section A is Compulsory.*

SECTION-A

1. Answer any TEN of the following. (10×2=20)
- a) Lithosphere
 - b) Tundra biome
 - c) Environmental ethics-
 - d) Greenhouse gases
 - e) Man made hazards
 - f) Perception of risk
 - g) Energy resources
 - h) Sustainability
 - i) Biodiversity conservation
 - j) Population explosion
 - k) Evolution
 - l) Types of biomes.

SECTION-B

- Answer any SIX of the following. (6×5=30)
2. Discuss the effect of water substances on atmosphere.
 3. Write a note on temperate grass land biome.

4. Give an account of historical route and scope of environmental science.
5. Explain human-ecosystem interaction.
6. Write briefly about thermodynamics of atmosphere.
7. Explain about resources and environmental problems.
8. Explain the effect of population explosion on the quality of life.
9. Describe the marine biome.

SECTION-C

Answer any **THREE** of the following.

(3×10=30)

10. Write an essay on hydrosphere.
 11. Discuss environmental movement in India with respect to Their dam.
 12. Discuss the moral and ethical issues in environmental science.
 13. Outline the evolution of ecosystem.
 14. Out line the geographical classification of India.
-

Roll No. _____

[Total No. of Pages : 2

PGIS-N 1080 B-18

M.Sc. I Semester (CBCS) Degree Examination

ENVIRONMENTAL SCIENCE

(Environmental Geosciences)

Paper - HCT-1.2

(New)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) *Answer all Sections.*
- 2) *Section A is Compulsory.*

SECTION-A

1. Answer any TEN of the following.

(10×2=20)

- a) Mineral
- b) Convergent Plate Boundary
- c) Magma
- d) Weathering
- e) Oxbow lake
- f) El-Nino
- g) Humus
- h) Land use
- i) Conservation
- j) Trace element
- k) Fossil fuel
- l) Acid mine drainage

SECTION-B

Answer short notes on any SIX of the following.

(6×5=30)

2. Geological time scale
3. Wegner's concept plate tectonics

PGIS-N 1080 B-18/2018

(1)

[Contd....

4. Environmental hazards caused due to earthquake
5. Cold and hot ocean currents and their effect on climate
6. Soil Profile
7. Geochemical cycle
8. Impact of climate change on water resource management
9. Indian climate monitoring system.

SECTION-C

Answer any **THREE** of the following.

(3×10=30)

10. Write an essay on internal structure of the Earth.
 11. Define weathering and describe different types of weathering.
 12. Write an essay on identification & characteristics of Bio and agroclimatic regions of India.
 13. Explain the application of meteorology to air pollution study.
 14. Describe water resources conservation methods.
-

Roll No. _____

[Total No. of Pages : 2

PGIS - N - 1082 B-18
M.Sc. I Semester (CBCS) Degree Examination
ENVIRONMENTAL SCIENCE
(Climate Change and Current Issues)
Paper - S.C.T. 1.2
(New)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) *Answer all Sections.*
- 2) *Section A is Compulsory.*

SECTION-A

1. Answer any **TEN** of the following.

(10×2=20)

- a) Energy balance
- b) Climatology
- c) Thiessen Polygon
- d) Radar and satellite
- e) Topography
- f) CCCR
- g) GWP-
- h) Green house effect
- i) Radiative forcing-
- j) ENSO
- k) Global warming
- l) Land use changes

SECTION-B

Answer any **SIX** of the following.

(6×5=30)

2. Discuss the current issues in the field of climate change.
3. Explain the remedial measures of greenhouse gases
4. Give an account on elementary ideas about weather system.
5. Discuss the expression and measurement of humidity.
6. Explain the impact of climate change on water resources.
7. Write a note on reflective and black carbon-
8. What is El nino? Explain.
9. Describe the different climatic seasons of India.

SECTION-C

Answer any **THREE** of the following:

(3×10=30)

10. Discuss the elementary ideas about weather system? Write a note on climatic control.
11. Explain the process, measurement and recording of precipitation.
12. Describe climate scenarios of India. Explain climates of vegetative surface.
13. Describe preliminary concept of climate changes. Explain forces effecting wind and wind measurement.
14. Explain the key impacts of climate change on environment.

Roll No. _____

[Total No. of Pages : 2

PGIS-N-1081 B-18
M.Sc. I Semester (CBCS) Degree Examination
ENVIRONMENTAL SCIENCE
(Environmental Biology)
Paper - HCT 1.3

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) *Answer all Sections.*
- 2) *Section A is Compulsory.*

SECTION-A

1. Write brief note on any **TEN** of the following.

(10×2=20)

- a) Homeostasis
- b) Food web
- c) Commensalism
- d) Bioms
- e) Ane mochory
- f) Soil erosion
- g) Flagship species
- h) IUCN
- i) Endemic species
- j) Natality
- k) Mutualism
- l) Red data book

SECTION-B

Write short note on any **SIX** of the following.

(6×5=30)

2. Soil conservation
3. Protected Areas Network in India.
4. CBD
5. Ecological dominance
6. Terrestrial ecosystem
7. Effect of temperature on Plants and animals
8. Lindeman model.
9. RAMSAR sites

SECTION-C

Answer any **THREE** of the following.

(3×10=30)

10. Explain structure and functions of Marine ecosystem.
 11. Explain biomass and productivity in aquatic communities.
 12. Write the salient features of heliophytes and sciophytes.
 13. Explain role of local communities in wildlife management.
 14. Describe the strategies for population control.
-