

Kadi Sarva Vishwavidyalaya

BE Sem- I

Subject: Environmental Studies

Date: 1st January, 2013, Tuesday

Time: 2:00 PM to 5:00 PM

Max. Marks: 70

Instruction: (1) Answer each section in separate answersheet

(2) Use of scientific calculator is permitted

Section - I

Q.1 Each carries equal marks 15

- [A] What is meant by ecological Pyramid? Describe the Pyramid of energy.
- [B] Explain the concept of ecosystem in detail.
- [C] Define the sustainable development and write short note on environmental degradation.

OR

- [C] Define Environment. Discuss the relationship between different component of environment.

Q.2 10

- [A] Discuss the impact of technological development on environment.
- [B] Answer the following question in single statement. (Any five)
 - (i) What is Abiotic?
 - (ii) What is Autotrophs?
 - (iii) What is Omnivores?
 - (iv) What is biological magnification?
 - (v) What is Food web?
 - (vi) When the world environment day is celebrated?
 - (vii) What is trophic level?

OR

- [A] Write a note on green house effect.
- [B] Explain the concept of food chain in detail with examples.

Q.3 10

- [A] What do you understand by bio-geo-chemical cycle? Draw the carbon dioxide cycle and explain its working.
- [B] Explain classification of resources in detail.

OR

- [A] Comment on the urban problems related to energy and discuss the effect of overpopulation over energy problems in India.
- [B] Explain grassland and desert ecosystem.

Section - II

15

Q.4

- [A] What is the meaning of pollution? Explain the point and non point source of water pollution.
- [B] Write a note on destruction versus conservation of natural resources?
- [C] Explain rainwater harvesting.

OR

- [C] Explain the effect of air pollution on human health.

Q.5

10

- [A] Explain the cause & effect of noise pollution.
- [B] Write a note on source and effect Carbon dioxide and Carbon monoxide.

OR

- [A] Explain the structure of atmosphere with temperature profile curve.
- [B] Explain any three factors causing land degradation.

Q.6

10

- [A] Which kind of pollution produced by uses of non renewable energy source? What are renewable resources which can replace them so that environment pollution is reduced?

- [B] Give reason for validity of following statement.(Any five)

- (i) A rise field is an artificial ecosystem.
- (ii) Hetrotrophs can produce their own food.
- (iii)Sun is the ultimate source of energy.
- (iv)The producer is a backbone of ecosystem.
- (v) Ozone layer lies in mesosphere.
- (vi)Water vapor is a green house gas.
- (vii)Acid rain is the rain of acid liquid.

OR

- [A] Write short note on ozone layer depletion.
- [B] What is the meaning of overpopulation and write it's causes.

Kadi Sarva Vishwavidhyalaya

BE Semester- II / Ⅱ

Subject: Environmental Studies

Date: 24th May, Friday

Time: 10:30 Am to 1:30 PM

Total Marks: 70

Instruction:

- (1) Answer each section in separate answersheet
- (2) Use of scientific calculator is permitted
- (3) All Questions are **compulsory**.
- (4) Indicate **clearly**, the options you attempt along with its respective question number.
- (5) Use the last page of main supplementary of **rough work**.

Section - I

- Q.1 Each carries equal marks
- [A] Write a short note on Eutrophication with neat sketch. [5]
 - [B] Classify natural resources in detail. [5]
 - [C] Define: Biomagnification and Bioaccumulation. [5]

Or

- Q.2
- [C] Explain any two air pollution control equipments in detail. [5]
 - [A] Choose the best suitable answer of following. (Any five) [5]
 - (i) World environment day is celebrated on
(a) 15th June (b) 5th May (c) 5th June (d) 15th march
 - (ii) Ozone gas is treated as pollutant in layer of
(a) Mesosphere (b) stratosphere (c) Troposphere (d) Hydrosphere
 - (iii) Impact of coal based thermal power plant is mainly on
(a) Lithosphere (b) Atmosphere (c) Animals (d) Microorganism
 - (iv) The result of discharging the waste water without any treatment is called as
(a) Water pollution (b) Air pollution (c) Land Pollution (d) Thermal Pollution
 - (v) Human belongs to a category of
(a) Decomposer (b) Omnivores (c) Producers (d) carnivores
 - (vi) Environment degradation can be evaluated by
(a) T = IPA (b) P = IAT (c) I = PAT (d) A = PIT
 - [B] Explain the Grassland Ecosystem in detail. [5]

OR

- [A] Define following term: Environment Degradation and Green house effect. [5]
- [B] Explain the grassland ecosystem in detail. [5]

P.T.O.

Q.3

- [A] Why Environmental Education is important? Give your opinion. [5]
[B] Write a short note on use of water resources in technical terms. [5]
- OR
- [A] Explain effect of Global Warming. [5]
[B] Draw a neat sketch of structure of atmosphere only and write down constituent of atmosphere by percentage. [5]

Section - II

Q.4

- [A] Write down your suggestion to conserve the water resource. [5]
[B] What do you mean by Food chain? Explain it in detail. [5]
[C] Give IS specification standards for drinking water. [5]

OR

- [C] Briefly explain causes of Land pollution. [5]

Q.5

- [A] Fill in blanks. [5]
(i) Microorganisms are..... component.(Biotic , Abiotic)
(ii) Destroying forest area is called as.....(Deforestation, Afforestation)
(iii).....is a sphere of living organism.
(iv) Keeping future demand in mind while using natural resources is called as.....(sustainable development, biodiversity)
(v) Energy flow isdirectional flow. (one,two)
[B] Explain causes of overpopulation in detail. [5]

OR

- [A] Arrange the following organism as per their food requirement in pattern of food web: [5]
Mouse, grass, snake, lizard, lion, fungi, hawk, rabbit, tiger, peacock
[B] Explain the impact of nuclear based power plant on environment. [5]

Q.6

- [A] Explain the concept of ecosystem in detail. [5]
[B] Explain key benefit of forest. [5]
- OR
- [A] Explain impact of technology on environment in detail. [5]
[B] Explain carbon dioxide cycle in detail. [5]

*****All the Best*****

Kadi Sarva Vishwavidyalaya

BE Sem- I

Subject Code:

Subject: Environmental Studies

Date: 31st December 2013, Tuesday

Time: 10:30 AM to 1:30 AM

Max. Marks: 70

Instruction:

- (1) Answer each section in separate answersheet.
- (2) Use of scientific calculator is permitted
- (3) All questions are Compulsory
- (4) Indicate Clearly, the option you attempt along with its respective question number.
- (5) Use the last page of main supplementary

Section - I

Q.1 Each carries equal marks **15**

- [A] What do you understand by bio-geo-chemical cycle? Draw the Nitrogen cycle and explain its working.
- [B] Define the sustainable development and write short note on environmental degradation.
- [C] Write a short note on Global Warming.

OR

- [C] What is Ecology? Classify ecology in detail.

Q.2 **10**

- [A] Explain the structure of ecosystem in detail.
- [B] Fill in the blanks.
- i. Producers are also called as
(autotrophs, heterotrophs, consumers)
 - ii. Ozone is treated as pollutant in.....
(troposphere, stratosphere, mesosphere)
 - iii. Detritus food chain starts from.....
(producers, consumers, dead organic matter)
 - iv. Microorganisms are(biotic, abiotic, producers)
 - v. The precipitations in which pH is below 5.6 is called as.....
(rainfall, acid rain, snowfall)

OR

Q.2 **10**

- [A] Write objective and principle of environmental education?
- [B] Explain the concept of food web in detail with examples.

Q.3 **10**

- [A] How do all organisms in one ecosystem get energy from sun? Explain it with diagram.
- [B] Explain forest ecosystem in detail.

OR

(P.T.O.)

Q.3

10

- [A] Explain Lithosphere and Biosphere.
- [B] Enlist environmental issues. Write a critical note on causes of environmental issues.

Section - II

Q.4

Each carries equal marks

15

- [A] Define following terms.(Any Five)
 - a. Natural Resources
 - b. Pollution
 - c. Carrying capacity
 - d. Noise
 - e. Overpopulation
 - f. Artesian well
- [B] Explain Eutrophication with neat sketch.
- [C] Give current world population. Explain the causes of overpopulation in general.

OR

- [C] Write a short note on cause & effect of noise pollution.

Q.5

10

- [A] How does human settlement govern environmental changes? Explain it briefly.
- [B] Explain key benefit of forest resources.

OR

Q.5

10

- [A] Which kind of pollution produced by uses of non renewable energy source? Write down steps to conserve the natural resources.
- [B] Explain any two solar energy appliances in detail.

Q.6

10

- [A] Write a critical note on crisis of natural resources in India.
- [B] Explain uses of water resources.

OR

Q.6

10

- [A] Explain the effect of carbon dioxide on human & on environment.
- [B] Explain the sources of water pollutant in detail.

KADI SARVA VISHWAVIDYALAYA
B.E. SEMESTER-I/II EXAMINATION DECEMBER-2014

Subject Code:CC105

Subject Name: Environmental Studies

Date: 3rd January, 2015

TIME: 10:30am To 1:30pm

Total marks: 70

Instruction:

1. Answer each section in separate Answer Sheet.
2. Use of scientific calculator is permitted.
3. All questions are compulsory.
4. Indicate **clearly** the options you attempted along with its respective question number
5. Use the last page of supplementary for rough work.

Section-1

Q.1 (A) Select the correct option to the following questions 05

(1) Lithosphere comprises of

- (a) Solid component of earth and gases (b) Solid component of earth
(c) gaseous cover and water (d) Solid component of earth and water

(2) The study of intersections between living organism and environment is called as

- (a) Ecosystem (b) Ecology (c) Photogeography (d) Phytosociology

(3) The World environment day is recalled on

- (a) 1st July (b) 5th June (c) 1st December (d) 2nd October

(4) The maximum number of individuals that can be supported by a given environment is called as

- (a) Biotic Potential (b) Carrying capacity (c) Population size
(d) Environmental resistance

(5) Attack of asthma in certain person may be due to

- (a) Eating of same seasonal vegetation (b) Exposure to hot temperature
(c) inhalation of some air borne pollution
(d) Low concentration of CO₂ due to increased rate of photosynthesis

(B) Describe sources of noise pollution. 05

(C) Write critical note on population clock. 05

OR

(C) Explain causes of deforestation. 05

Q.2

(A) Give an account of biotic component of environment. 05

(B) Write critically necessity of environment education to engineers. 05

OR

- Q.2 (A) Write a short note on Food Web. 05
 (B) Differentiate between Renewable energy resources and Non Renewable energy resources. 05

- Q.3 (A) Explain effect of air pollution on human health. 05
 (B) Write a short note on: Eutrophication 05

OR

- Q.3 (A) Explain Forest Ecosystem with its component. 05
 (B) Give an account of Sulphur cycle in nature. 05

Section-2

- Q.4 (A) Give environmental problems associated with coal based thermal power plant. 05
 (B) Define following terms: 05
 Bio magnification and Environmental Pollution
 (C) Write a short note on: Green house effect 05

OR

- (C) Write a short note on: Acid rain 05
 Q.5 (A) Give silent features of a Pond ecosystem. 05
 (B) Explain Tidal Energy with neat sketch. 05

OR

- Q.5 (A) Give advantages and disadvantages of renewable energy resources. Also List down various renewable energy resources. 05
 (B) Give an account of Energy flow in an ecosystem. 05

- Q.6 (A) Explain cause and effect of over population. 05
 (B) Explain causes of Land degradation. 05

OR

- Q.6 (A) Write a short note on uses of water. 05
 (B) Describe methods of water purification. 05

-----All the Best-----