

(2-Eng) Seat No : _____

SARDAR PATEL UNIVERSITY

[No. of printed pages: 02]

B.Sc. Semester - 1 - Examination (NC)

Sub. : Environmental Science Code: US01EENV04

Date 24/03/2017

Time: 02:00 to: 04:00 PM

TOTAL MARKS: 70

Friday

Q. 1 Multiple choice questions:

(10)

(1) The solid component of earth comprise

(a) Hydrosphere (b) Lithosphere (c) Atmosphere (d) Ionosphere

(2) Nitrogen contents in atmospheric air is about

(a) 20% (b) 30% (c) 40% (d) 79%

(3) Ozone is mainly present in

(a) Troposphere (b) Mesosphere (c) Stratosphere (d) Thermosphere

(4) In pond ecosystem microscopic animals and plants are

(a) Planktons (b) Herbivores (c) Flora and fauna (d) Commensals

(5).....is not a component of pond ecosystem.

(a) Phytoplankton (b) Zooplanktons (c) Bat (d) Fish

(6) Which of the following is not a biotic component?

(a) Amoeba (b) Temperature (c) Bacteria (d) Rat

(7) Lion is an example of

(a) producer (b) Herbivore (c) Tertiary consumer (d) Primary consumer

(8) The non-renewable source of energy is

(a) Solar energy (b) Plants (c) Coal (d) Wind

(9) Which of the following is negative interaction between two populations?

(a) Symbiosis (b) Mutualism (c) Commensalism (d) Antibiosis.

(10) One of the following relations which is useful to one population and harmful to other population.

(a) Competition (b) Commensalism (c) Predation (d) Mutualism.

(P.T.O)

Q. - 2. Answer in short (attempt any ten)

(20)

- (1) Define: Nitrogen cycle
- (2) Give the names of green house gases. (Any four)
- (3) Write down the composition of Atmosphere.
- (4) Define: pyramid of number.
- (5) Define: pyramid of biomass.
- (6) What is the function of decomposers in Ecosystem? Give two examples of decomposers.
- (7) Mention the characteristics of desert ecosystem
- (8) Define : non - renewable resources.
- (9) Enlist any four types of forest in Gujarat.
- (10) Explain in brief: Parasitism
- (11) Explain in brief: Predation
- (12) What is positive interaction?

Q. -3 Define Bio-geochemical cycle. Explain Carbon cycle in detail.

(10)

OR

Write short notes on:

(a) Crust Mantle and Core.

(05)

(b) Hydrosphere.

(05)

Q. -4 Write short notes on:

(a) Ecological pyramid of energy.

(05)

(b) Food chain in ecosystem.

(05)

OR

(a) Energy flow in ecosystem.

(05)

(b) Food web in ecosystem.

(05)

Q. -5. Write short notes on:

(a) Benefit and problems of dam.

(05)

(b) Uses and conservation of land resources.

(05)

OR

(a) Conservation of forest resources.

(05)

(b) Renewal resources.

(05)

Q. -6. Describe mutualism in details with examples and suitable diagram.

(10)

OR

Write short notes on:

(a) Lians and epiphytes.

(07)

(b) Symbiotic nitrogen fixation.

(03)

— X —