

RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

B.A./B.Sc. FOURTH SEMESTER EXAMINATION, MAY 2018

SECOND YEAR [BATCH 2016-19]

ENVIRONMENTAL STUDIES

Date : 17/05/2018

Time : 1 pm – 3 pm

Paper : I

Full Marks : 50

Roll No. as per the Admit Card : Registration No. :

Signature of the Invigilator

Answer any ten [Please tick (✓) the correct option]

[10x1= 10]

1) Biosphere is made of

- a) Atmosphere b) Lithosphere c) Hydrosphere d) All of these

2) World environment day is celebrated on

- a) 5th June b) 6th August c) 5th September d) 5th November

3) Bhopal gas disaster was caused by the gas

- a) Methyl isocyanide b) Methyl isocyanate c) Carbon monoxide d) Chlorofluorocarbon

4) Lotic water means-

- a) Lake water b) Pond water c) Running water in river d) Ocean water

5) ----- refers to all the different genes contained in all the living species including plants, animals, fungi and microorganisms.

- a) Species diversity b) Genetic diversity c) Ecosystem diversity (d) Biodiversity

6) The pyramid of number is inverted, in case of

- a) Desert ecosystem b) Grassland ecosystem c) Pond ecosystem d) none of these

7) The flow of energy in an ecosystem is--

- a) Uni-directional b) Bi-directional c) Multi-directional d) none of these

8) Wildlife (Protection) Act was enacted in the year

- a) 1971 b) 1972 c) 1975 d) 1980

9) Bag filters are used in factories to minimize

- a) Air pollution b) Water pollution c) Noise pollution d) Pesticide pollution

10) Free floating aquatic microscopic organisms are known as-

- a) Nekton b) Periphyton c) Plankton d) none of these

11) Solid wastes include

- a) Latex paint b) Waste tires c) Garbage d) all of these

12) Eutrophication causes

- a) Over productivity b) Algal bloom c) Both a & b d) none of these

Answer all the questions :

[10×2 = 20]

- 1) How many bio-geographic zones and bio-geographic provinces are there in India?**
- 2) What do you mean by aesthetic values?**
- 3) What is a vulnerable species?**
- 4) Define ex-situ conservation.**
- 5) What are Ramsar sites?**
- 6) Mention the functions of World Wildlife Fund for nature (WWF).**
- 7) Define an ecosystem.**
- 8) What do you mean by Lithosphere and Hydrosphere?**
- 9) State the evidence of global warming. (Mention points only)**
- 10) What is C & D debris?**

Write in brief on any four : (within 150 – 200 words)

[4x5 = 20]

1) Mention the need of Environmental Studies.

2) State the advantages of a photovoltaic system.

3) What are the causes of deforestation?

4) Briefly describe the importance of wild life conservation.

5) Read the following passage carefully and choose the correct statement/statements of the respective passage.

We get energy from some energy sources, for example, heat energy by combustion of coal. So, coal is an energy resource. Energy resources can be classified into two types – renewable energy and non-renewable energy. Nature has infinite amount of renewable energy resources. By applying these we can prepare new kinds of energy. Solar energy, wind energy, wave and flow of oceans fall in these categories. These resources are generated in nature itself. By introducing proper planning we can utilize these energies.

Statement -1 : Solar energy is a renewable energy resources.

Statement- 2 : Nature has infinite amount of non-renewable energy resources.

Statement- 3: By introducing proper planning energy resources of the nature can be utilized.

Ans : Statement no-1 and Statement no- 3.

6) Enumerate the major impacts of thermal pollution.

7) Write a short note on municipal waste management.