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AR-2017

B.Sc (Ag)

**3<sup>rd</sup> SEMESTER REGULAR EXAMINATIONS, SEPT/OCT 2019-20**

**AG-234**

**ENVIRONMENTAL STUDIES AND DISASTER MANAGEMENT**

Time : 2 Hours

Maximum : 50 Marks

(Answer **all** questions of Section – A)

**SECTION – A**

**Q.1** Fill up the Blanks with suitable and meaningful word(s): **[10×0.5 = 5.0]**

- a The unit of measurement of intensity of sound is in\_\_\_\_\_
- b Thickness of plastic cover permissible to use\_\_\_\_\_ microns
- c \_\_\_\_\_commonly called ‘Bird Man of India’
- d World Forest day is celebrated on\_\_\_\_\_
- e The book silent spring was written by\_\_\_\_\_
- f An ecosystem gradually merges with an adjoining one through a transitional zone is called the \_\_\_\_\_
- g Zoos are examples for \_\_\_\_\_ conservation
- h The word environment is derived from French word \_\_\_\_\_.
- i Fresh water available in the earth is \_\_\_\_\_ %.
- j The variety or variance of distinct types of living organisms in different habitats are called as\_\_\_\_\_

**Q.2.** Define or Explain the following in one or two sentences **[ 5 × 1.0 = 5.0]**

- a)Food web
- b) Malnutrition
- c) Biomagnification
- d) Thermal pollution
- e) Sustainable development

**Q.3.** Select the most appropriate one **[10 × 0.5 = 5.0]**

- i World Ozone day is
  - a) March 16      b) June 5      c) September 16      d) November 16.
- ii Exchange of outgoing and incoming radiations that keep Earth warm is known as
  - a)greenhouse effect      b)radiation effect      c)infrared effect      d)ozone layer depletion
- iii The use of microorganism metabolism to remove pollutants such as oil spills in the water bodies is known as :
  - a)Biomagnification      b)Bioremediation      c)Biomethanation
  - d)Bioreduction
- iv The relationship between water fern Azolla and Cyanobacterium Anabaena is
  - a)Symbiotic      b)Mutualistic      c)Commensalism      d)Proto-Cooperation
- v The most harmful environmental pollution from nuclear reactor is–
  - a)radioactivity
  - b) particulate formation      c) thermal pollution      d) noise pollution
- vi Which of the following is not a primary pollutant?



- a)SO<sub>2</sub>    b) Volcanic ash    c) O<sub>3</sub>    d) CO<sub>2</sub>
- vii The salt-tolerant trees growing in shallow marine sediment or estuaries Known as  
a)Mangroves b) Xerophytes c) Epiphytes d)None of the above
- viii An ecosystem gradually merges with an adjoining one through a transitional zone called  
the a) Ecological niche    b) Ecological footprint    c) Ecotone    d)Food web
- ix potential impacts of hazards on economic assets and processes    a)physical vulnerability  
b)social vulnerability    c)economic vulnerability    d)environmental vulnerability
- x The Chipko movement is started by    a) Engler    b) Sunderlal Bahuguna    c) Medha  
Padkar    d)Vandana Shiva

Q.4. Write **TRUE** or **FALSE** against the following statements    [ 10 × 0.5 = 5.0]

- i. Cement factory labourers are prone to cytosilicosis
- ii. When both the partners are affected negatively the nature of interaction is called predation.
- iii. Coral reefs region has maximum diversity
- iv. Temperature in stratosphere layer can be as high as 12000°C.
- v. Mitigation is the most cost-efficient method for reducing the impact of natural disaster.
- vi. Dr. Homi Bhabha was the father of Nuclear Power development in India.
- vii. Energy flow in the ecosystem is multidirectional.
- viii. Biodiversity increases towards equator
- ix. Hotspots are region of high endemism
- x. Earth summit was held on Italy 1982

#### SECTION – B

(Attempt any five questions. Each question carries equal marks)    5x6=30

- Q.5 Classify the types of ecosystem. Write briefly about functions of ecosystem.
- Q.6 Describe in-situ and ex-situ conservation with their merits and demerits
- Q.7 Explain about the sources and effects and control measures of noise pollution
- Q.8 write short note **any Two**
- a) Man Made Disaster
  - b) Urbanization and its effects
  - c) Environmental Ethics
- Q.9 Justify that India is a mega diversity nation. Write short notes on various threats to biodiversity.
- Q.10 List the reasons for over exploitation of resources. Discuss solar energy as an alternative energy resource.