

**PARUL UNIVERSITY**  
**COLLEGE OF AGRICULTURE**  
**B.Sc.(Hons.)Agriculture Winter 2018 - 19 Examination**

Semester: 3

Date: 27/10/2018

Subject Code: 20110202

Time: 10.30 am to 1.00 pm

Subject Name: Environmental Studies and Disaster Management

Total Marks: 50

**Instructions**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1 Do as Directed.****A. Fill in the blanks. (Each of 0.5 marks)****(05)**

1. Ozone layer present in \_\_\_\_\_layer of atmosphere.
2. The term biodiversity was coined by\_\_\_\_\_
3. The number of hotspots present in India is\_\_\_\_\_
4. The solid or hard mass of earth subsystem is called\_\_\_\_\_
5. Good aquifers are made up of\_\_\_\_\_
6. The standing water ecosystem is also called as\_\_\_\_\_
7. The running water ecosystem is also called as\_\_\_\_\_
8. The Term ecosystem coined by \_\_\_\_\_
9. An example for tropical rainforest is \_\_\_\_\_
10. Dams are temples of modern India said by\_\_\_\_\_

**B. Multiple choice type questions. (Each of 0.5 marks)****(10)**

1. The ozone layer present in the atmosphere at a distance from the earth\_\_\_\_\_
  - a)14-18 km
  - b)18-50 km
  - c)50 km
  - d)50-80 km
2. Denitrification bacteria is \_\_\_\_\_
  - a) Nitrosomonas
  - b) Nitrobacter
  - c) *Pseudomonas fluorescens*
  - d) None
3. Current rate of deforestation is \_\_\_\_\_m ha/year
  - a) 100
  - b)20
  - c)30
  - d)10
4. The mineral which is extracted from dredging method of mining is\_\_\_\_\_
  - a) Sand
  - b) Coal
  - c) Lignite
  - d) Manganese
5. The dam which is built for Narmada river in Gujarat is\_\_\_\_\_
  - a) Heerakund
  - b) Bhakranangal
  - c) Sardarsarovar
  - d) Nagarjunsagar dam
6. The layer of earth surround the air is called\_\_\_\_\_
  - a) atmosphere
  - b) hydrosphere
  - c) biosphere
  - d) lithosphere
7. The Gir national park providing habitat for which wildlife\_\_\_\_\_
  - a) Bengal tiger
  - b) Asiatic lions
  - c) rhinoceros
  - d) elephants
8. Panna tiger reserve located in\_\_\_\_\_
  - a) Newdelhi
  - b) Gujarat
  - c) Bihar
  - d) Madhya Pradesh
9. Coldest layer of atmosphere\_\_\_\_\_
  - a) Troposphere
  - b) Mesosphere
  - c) Ionosphere
  - d) Thermosphere
10. The layer of atmosphere having radioactivity in it is\_\_\_\_\_
  - a) Troposphere
  - b) Atmosphere
  - c) Ionosphere
  - d) Thermosphere
11. The weather phenomenon fog and smoke occurs in which atmospheric layer\_\_\_\_\_
  - a) Troposphere
  - b) Atmosphere
  - c) Ionosphere
  - d) Thermosphere

- 12 The crop which takes nitrogen in the form of ammonia\_\_\_\_\_
- a) Cotton c) Paddy  
b) Wheat d) Carrot
- 13 The place receives highest rainfall in the world located at\_\_\_\_\_
- a) Agumbe c) Mousinram  
b) Kerala d) Verkoyansk
- 14 The annual rainfall of India\_\_\_\_\_
- a) 1194 mm c) 900 mm  
b) 1000 mm d) 1500 mm
- 15 The mining which is used to extract the diamond from the earth\_\_\_\_\_
- a) Strip mining c) Sub surface method  
b) Surface mining d) Open pit method
- 16 For water bodies which method of mining is used mainly to extract the sand\_\_\_\_\_
- a) Strip mining c) Dredging  
b) Surface mining d) Open pit method
17. The total number of oceans present in the world\_\_\_\_\_
- a) 4 c) 6  
b) 5 d) 7
18. The molecular formula of ozone is\_\_\_\_\_
- a) O<sub>2</sub> c) O<sub>4</sub>  
b) O<sub>3</sub> d) O
19. The gas which is mainly responsible for ozone layer depletion is \_\_\_\_\_
- a) CFC c) NO<sub>2</sub>  
b) CO<sub>2</sub> d) SO<sub>2</sub>
20. The source of methane gas to the environment is\_\_\_\_\_
- a) Paddy field and biogas c) Automobiles  
b) Deforestation d) Vehicles

**Q.2 Do as Directed.**

**A. Define the following. (Any five)**

**(05)**

1. Ground subsidence
2. Aquifer
3. Lithosphere
4. Ecology
5. Environmental science
6. Ecosystem
7. Biodiversity

**B. Answer the following. (Any Five)**

**(05)**

- |                       |                      |
|-----------------------|----------------------|
| 1. Food chain         | 4. Deforestation     |
| 2. Food web           | 5. Natural resources |
| 3. Ecological pyramid | 6. Renewable energy  |
| 7. Forest             |                      |

**Q.3 Write short notes. (Any five)**

**(10)**

1. Give graphical representation of ground water system?
2. Explain the classification of natural resources?
3. Explain the mineral resources?
4. Explain the principles of an ecosystem
5. Explain the structure of an ecosystem
6. Give the importance of forest ecosystem

**Q.4 Attempt any Three/Long Questions/Example**

**(15)**

1. Explain the effect of global warming?
2. Define mining? And explain the types of mining?
3. Explain the desert characteristics and structure of ecosystem with an example? And give food chain in the desert ecosystem?
4. Define hotspot? Mention hotspots in India? Explain the uses of biosphere reserve?