

**PARUL UNIVERSITY**  
**FACULTY OF ARTS**  
**B.A. Summer 2018- 19 Examination**

**Semester: 1**  
**Subject Code: 15193102**  
**Subject Name: Environmental Science & Studies**

**Date: 08/05/2019**  
**Time: 2:00 pm to 4:30 pm**  
**Total Marks: 60**

**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.****(08)****A. Multiple choice type questions. (Each of 0.5 mark)**

1. It is a group of organisms consisting of small animals like worms, insects, bacteria and fungi, which break down dead organic material into smaller particles and finally into simpler substances that are used by plants as nutrition.
 

(a) Carnivores	(c) Decomposers
(b) Herbivores	(d) Omnivores
2. Which of the following is abiotic resource?
 

(a) Air	(c) Soil
(b) Plants	(d) both (a) & (c)
3. This consists of patches of tall grasslands interspersed with a Sal forest ecosystem.
 

(a) Terai	(c) Scrublands
(b) Shola	(d) none of these
4. What is the expansion of WWF?
 

(a) World Wide Fund	(c) Wide World Fun
(b) World Wide Fun	(d) Wide Wide Fund
5. These are also called xerophytic species.
 

(a) Mangrove forests	(c) Deciduous forests
(b) Coniferous forests	(d) Thorn forests
6. The percentage of \_\_\_\_\_ is highest in the atmosphere.
 

(a) Argon	(c) Nitrogen
(b) Oxygen	(d) Hydrogen
7. Slogans such as 'Hum do hamare do' is pertaining to?
 

(a) parents	(c) students
(b) children	(d) both (a) & (b)
8. Which of the following is non renewable resource?
 

(a) Minerals	(c) Oil
(b) Water	(d) both (a) & (c)
9. When did Bhopal Gas Tragedy occur?
 

(a) 1920	(c) 1894
(b) 1984	(d) 1970
10. Which of the following is natural resource?
 

(a) windmill	(c) dam
(b) lake	(d) none of these
11. When is World Environment Day celebrated?
 

(a) April 22	(c) July 5
(b) June 5	(d) both (a) & (b)
12. Which of the following comes under trace gases?
 

(a) Methane	(c) Nitrous Oxide
(b) Carbon dioxide	(d) all of these
13. This is when we observe Wildlife Week.
 

a. September 1-7	b. October 1-7
c. November 7-14	d. December 7-14
14. The lowest layer \_\_\_\_\_ the only part warm enough for us to survive in , is only \_\_\_\_\_ thick.
 

a. Stratosphere , 50km	b. Troposphere , 12km
c. Stratosphere , 12km	d. Troposphere , 15km
15. In which year did the Selenium case of Punjab took place?
 

a. 1981-82	b. 1961-62
c. 1971-72	d. 1951-52

16. Who is the author of famous work 'Origin of Species'.

- a. Indira Gandhi
- b. Salim Ali
- c. Charles Darwin
- d. none of these

**B. Terms/ Short notes/ Case study/ Charts/ Graphs/ Tables, etc. (Each of 01 mark) (07)**

1. What do you understand by ecosystem?
2. Define sustainable development.
3. What is the first law of thermodynamics?  
What are the measures that one can take to control air pollution?
4. List the various spheres of the earth.
5. What is thermodynamics?
6. Define deforestation?

**Q.2 Answer the following.**

**A.** What is the scope for environmental studies? (04)

**B.** State the 1<sup>st</sup> and 2<sup>nd</sup> law of thermodynamics. (04)

**C.** Write a note on from Unsustainable to Sustainable Development. (04)

OR

**C.** How can we conserve water resources? (04)

**Q.3 Answer the following.**

**A.** What is Chipko Movement? (05)

**B.** Write short note on Forest Conservation Act. (05)

**C.** What are the threats to forest ecosystem? How can it be conserved? (05)

OR

**C.** What is semi-arid ecosystem? How can it be conserved? (05)

**Q.4 Answer the following.**

**A.** Name some government and non-government organizations that has led to environmental protection in our country. (06)

**B.** Discuss in detail population growth and variation among the nations. (06)

**C.** What are the threats to grassland ecosystem? Why is it vanishing? (06)

OR

**C.** Define the following ecosystems: Forest ecosystem, Grassland ecosystem, Wetlands ecosystem and Agriculture ecosystem. (06)