

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech., Summer 2018-19 Examination

Semester: 8**Subject Code: 03103452****Subject Name: Environment Pollution Control and Safety Management****Date: 1/5/2019****Time: 10:30 am To 1:00 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 Objective Type Questions -**(15)**

1. Define Explosion.
2. Define Hazard.
3. Define ecology
4. The upper layer of atmosphere is called as _____
a) Stratosphere b) troposphere c) ionosphere d) none of these
5. The major constituents of atmospheric air are
a) Nitrogen b) argon c) oxygen d) carbon dioxide
6. Global warming may result in
a) Flood b) cyclone c) decrease in food productivity d) all above
7. Ozone is
a) A primary pollutant b) a secondary pollutant c) impervious to UV rays
d) both b and c
8. Depleting of ozone layer causes_
 1. Contract in eyes leading to blindness
 2. Reduce Productivity of forest
 3. Lung infection
a) only 1 b) only 1 and 2 c) only 2 and 3 d) 1,2 and 3
9. _____ chemical cause water Pollution
10. What is risk?
11. What is the expansion of EIA?
12. _____ is the most major constituents of air pollution
13. Alum is used for _____ process in water treatment
14. Full form of FTA is _____
15. _____ equipment is used to remove fine dust most efficiently.

Q.2 Answer the following questions. (Attempt any three)**(15)**

- A) State different type of Explosion. Explain any one.
- B) Explain in brief Event Tree analysis for risk assessment
- C) Explain the working principle for electrostatic precipitator
- D) Discuss Basic principles and methodology of ISO 180001

Q.3 A) State the techniques for Hazard identification. Explain any one in detail**(07)**

- B) Write a short note on Solid waste management.

(08)**OR**

- B) Write short note on advanced waste water treatment methods.

(08)**Q.4 A) Discuss various types of environmental pollution.****(07)****OR**

- A) Explain the different sources and causes of environmental pollution. Explain the effect of pollution and its impact on environment.
- B) Explain Hazard and operability (HAZOP) method in detail.

(07)**(08)**