

[14/A-10]

SEAT No. _____

No. of Printed Pages : 02

SARDAR PATEL UNIVERSITY

B.Sc. Industrial Chemistry

(Semester – 4TH) EXAMINATION

13th April 2019, Saturday

Course No. : US04ECHE05

(Industrial Pollution ,Its control and Safety)

Total Marks: 70

Time:10.00 to12.00 am

Q.1 Answer the given multiple choice questions. [10]

1. Acid rain is due to the presence of
a. Only moisture in air b. NO_x & SO_x in air c. Both a & b d. None of these
2. _____ affect respiration and O_2 carrying capacity of blood when polluted air is inhaled
a. CO b. NO c. CO_2 d. SO_x
3. Trickling filter involves _____ process to reduce BOD of waste water.
a. Aerobic b. Anaerobic c. Both a) and b) d. None of these
4. Primary treatment of sewage removes
a. grit b. suspended matter c. oil and grease d. All of these
5. Dewatering of sludge is carried out in
a. Rotary filter b. Sedimentation c. Centrifuge d. None of these
6. Principle source of solid waste are
a. Domestic activity b. Industrial c. Agriculture d. All of these
7. Putrescible solid waste is known as
a. garbage b. rubbish c. Both a and b d. None of these
8. Accidents leads to
a. Loss of life b. Revenue loss c. property loss d. All of these.
9. Fire due to petrol is extinguished using
a. water b. nitrogen c. dry powder d. None of these
10. Skin inflammation caused by hazards chemicals is known as
a. irritation b. dermatitis c. paralysis d. None of these

Q.2 Attempt any Ten. [20]

- i. Explain primary and secondary pollutants.
- ii. How green house effect is produced.
- iii. List various types of particulate.
- iv. State different impurities present in water.
- v. Define water pollution and water pollutant.
- vi. What is pesticide? Explain its effect.
- vii. Name some putrescible waste.
- viii. List the name of agriculture waste.
- ix. Define Garbage and Rubbish.
- x. What is MSDS and write its importance.
- xi. State the indices of flammability.
- xii. State the roots of entry of chemicals in the human body.

(1)

(P.T.O.)

Q.3a) Define Air Pollution and discuss about major sources of air pollution. [10]

OR

Q.3a) Write notes on: i) Wet Scrubber. ii) Fabric Filter. [10]

Q.4a) List the adverse effect of waste water due to presence of industrial pollutants. [10]

OR

Q.4a) List out steps involved in sewage treatment plant. Discuss one of them in detail. [10]

Q.5a) Discuss about recycle and recovery of glass. [5]

b) Write a note on: Solid waste and Health hazards. [5]

OR

Q.5) Discuss the solid waste collection method in detail. [10]

Q.6) Discuss about following approaches to practice safety [10]

a. Importance of color code b. Use of personal protective devices.

OR

Q.6) Write notes on : i) Laboratory safety ii) Fire Hazard [10]

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