

SEAT No. _____

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[11/A-13]

SARDAR PATEL UNIVERSITY

B.Sc. Industrial Chemistry

(Semester – 4TH) EXAMINATION

16th April 2018, Monday

Course No. : US04ECHE05

(Industrial Pollution, Its Control & Industrial Safety)

Total Marks: 70

Time: 10:00am to 12:00am

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

1. Wet Scrubber removes -----from polluted gas stream.
a) Soluble gases c) Both a) and b)
b) particulate matter d) None of these
2. Cigarette smoke contains
a) NO_x b). CO_x c) Both a & b d) None of these
3. Acid rain is due to presence of
a) Only moisture in air b) NO_x& So_x in air c) Both a & b d) None of these
4. Sewage contain ----- % of water
a) 99 b) 99.9 c) 99.5 d) 100
5. Sources of ground water pollution are
a) Domestic b) Industrial c) Agriculture d) All of the above.
6. Incineration is the method of solid waste disposal by
a) Filtration b) Sedimentation c) Burning d) None of these.
7. Land fill operation of solid waste disposal is essentially
a) Biological method b) Physical method c) Chemical Treatment d) All of these.
8. Hazard due to toxic nature of chemical is identified by
a) TLV b) LD50 c) Both a & b d) None of these
9. Fire point of fuel is always _____ flash point
a) equal to b) less than c) More than d) All of these.
10. Pipelines carry water is coated with which colour ?
a) Sea green b) dark violet c) black d) canary yellow

Q.2 Attempt any Ten. [20]

- i. State the sources of NO_x pollution.
- ii. Explain primary and secondary pollution
- iii. Write about SO_x Pollutants.
- iv. List impurities present in natural water.
- v. List different steps of sewage treatment.
- vi. List different sources of noise pollution.
- vii. List advantages of sanitary land fill.
- viii. Name some putrescible solid waste.
- ix. Explain: Garbage and Rubbish.
- x. List the personal protective devices
- xi. State the routes of entry of chemical in human body.
- xii. State the indices of flammability.

[P.T.O.]

①

Q.3a) Define air pollution and discuss sources of air pollution. [10]

OR

Q.3a) Discuss control and remedial measures of green house effect. [10]

Q.4a) Discuss BOD and COD in detail. [10]

OR

Q.4a) List the adverse effect of waste water due to presence of
i) Industrial pollutants. ii) Organic pollutants. [10]

Q.5a) Discuss solid waste collection method. [5]

b) Write a note on: Classification of Solid Waste. [5]

OR

Q.5a) Discuss how glass and paper are recovered and recycle from waste.. [10]

Q.6a) Write about Laboratory safety. [5]

b) Discuss Electrical Hazard. [5]

OR

Q.6a) Discuss harmful effect of common chemicals. [5]

b) Write a note on : Fire hazard. [5]