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SARDAR PATEL UNIVERSITY

B.Sc. Industrial Chemistry

(Semester – 4TH) EXAMINATION

13th April 2016, Wednesday

Course No. : US04ECHE05

(Industrial Pollution, Its Control & Industrial Safety)

Total Marks: 70

Time: 10:30 to 12:30pm

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

1. Cigarette smoke contains
(a) NO_x (b) Co_x (c) Both a & b (d) None of these
2. Green house process
(a) reduces CO₂ (b) reduces O₂ (c) Both (a and (b (d)None of t hese
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. Dewatering of sludge is carried out in _____
(a) Rotary filter (b) Sedimentation. (c) Centrifuge (d) None of these
5. Sources of ground water pollution are
a)Domestic (b) Industrial (c) Agriculture (d) All of the above.
6. Putrescible solid waste is known as
a)Garbage (b) Rubbish (c) Both of these (d)None of these
7. Incineration is the method of solid waste disposal by
a)Filtration (b) Sedimentation (c) Burning (d) None 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. Skin inflammation caused by hazardous chemicals is known as
a) Dermatitis (c) Paralysis
b) Irritation (d) Skin cancer
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 SO_x pollution.
- ii. Explain primary and secondary pollution
- iii. Discuss about acid rain.
- iv. What is pesticide? Explain its effect.
- v. List different methods of sludge disposal.
- vi. List different sources of noise pollution.
- vii. Discuss about incineration.
- viii. Define garbage and rubbish.
- ix. List steps for solid waste management.
- x. Define flash point and fire point.
- xi. Explain TLV.
- xii. State the routes of entry of chemical in our body.

(1)

(P.T.O.)

- Q.3a)** Write a note on : Wet scrubber [10]
- OR**
- Q.3a)** List the adverse effect of polluted air due to the presence of NO_x [5]
b) Discuss major sources of air pollution. [5]
- Q.4a)** Discuss adverse effect of inorganic pollutants present in waste water. [10]
- OR**
- Q.4a)** Discuss BOD and COD in detail. [10]
- Q.5a)** Discuss classification of solid wastes. [5]
b) Write about different disposal methods of solid waste. [5]
- OR**
- Q.5a)** Write a note on : Natural sources of radiation. [5]
b) Discuss Solid waste and health hazards. [5]
- Q.6a)** Write about Ventilation and lighting. [5]
b) Discuss harmful effect of common chemicals. [5]
- OR**
- Q.6a)** Write notes on : i) Personal Protective devices ii) Importance of color code [10]

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