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DEPARTMENT _____

No. of Printed Pages : 02

SARDAR PATEL UNIVERSITY
B.Sc. FIFTH SEMESTER EXAMINATION
2019
FRIDAY 15th NOVEMBER
10:00 am to 01:00 pm
USO5CENV03
(ENVIRONMENTAL POLLUTION)

Marks: 70

Note: 1. Answers of all the questions (including multiple choice questions)
Should be written in the provided answer book only

2. Draw neat and labeled diagrams wherever necessary

Q.1. Select the correct answer and write it in the answer sheet. (10)

1. _____ is the natural source of air pollutant.

- (a) Sea spray (b) CO (c) Ozone (d) Ammonia

2. _____ is the effective stack height for proper effluent disposal.

- (a) 2.5 (b) 2 (c) 1.5 (d) 1

3. Haemoglobin has chemical affinity _____ times more for CO than that for oxygen.

- (a) 310 (b) 300 (c) 210 (d) 200

4. DDT persists for _____ years in soil.

- (a) 0-1 (b) 1-2 (c) 2-3 (d) 3-15

5. 75% radiation caused DNA damage is due to _____ free radical

- (a) OH (b) HOH (c) O (d) HO

6. Radioactive debris which settles down on earth surface after _____ is termed as Nuclear fallout.

- (a) Nuclear explosion (b) Volcanic eruption
(c) Earth quake (d) Flood

7. The distance through which sound wave travels in unit time is known as _____.

- (a) Wavelength (b) Amplitude (c) Frequency (d) Pitch

8. According to McKee and Wolf, the drinking water having temperature more than _____ is considered unfit for drinking.

- (a) 5° C (b) 10° C (c) 15° C (d) 20° C

9. LPG is an abbreviation of _____.

- (a) Liquefied Petroleum Gas (b) Lipid Petroleum Gas
(c) Lead Petroleum Gas (d) Light Petroleum Gas

10. _____ Engine is designed specifically for hydrogen fuel.

- (a) External combustion (b) Spark Ignition (c) Two Stroke (d) Four Stroke

(1)

(P.T.O)

Q.2. Answer the following questions in brief (Any 10) (20)

1. Write a note on Ringlemann chart scale method
2. List out natural and man-made sources of air pollution
3. Write a short note on Plate tower scrubber
4. Define soil pollution and enlist the sources of inorganic soil pollutants
5. Explain the leaching of pesticides in soil
6. Describe the types of radiations
7. What are the sources of thermal pollution?
8. State the principle of sound level meter
9. Enlist the parts of human ear
10. Define vehicular pollution
11. Write note on Electric fuel
12. Discuss the role of Carbon monoxide as vehicular pollutant

Q.3. (a) Explain Sampling of Gases and Vapors in terms of Air Pollution. (06)

(b) Write a note on measurement of pollutants by Dust-fall determination. (04)

OR

Q.3. (a) Discuss the effects of air pollutants on man. (06)

(b) Explain Cyclone as dust collector for the control of air pollution (04)

Q.4. (a) Discuss the disadvantages of land applications. (05)

(b) Explain the reactions of pesticides in soil. (05)

OR

Q.4. (a) Discuss the effects of radiation pollution. (06)

(b) Explain the methods to control radiation pollution. (04)

Q.5. (a) Describe the methods to control noise pollution. (05)

(b) Explain the effects of noise pollution. (05)

OR

Q.5. (a) Enlist the effects of thermal pollution. (05)

(b) Discuss the measures to control thermal pollution. (05)

Q.6. Describe biodiesel as an alternative fuel and abatement of vehicular Pollution. (10)

OR

Q.6. Discuss the various automobile emissions. (10)

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(2)