

19
A-44

SARDAR PATEL UNIVERSITY
S. Y. B.Sc. (4th SEMESTER) EXAMINATION
Thursday, 7th April 2016
10.30 a.m. to 1.30 p.m.
Environmental Science

US04CENV02 ENVIRONMENTAL POLLUTION, WILD LIFE AND BIODIVERSITY
Total Marks: 70

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

1. _____ is example of natural sources
(a) Volcanic eruption (b) SO_x (c) Acid rain (d) NO_x
2. _____ is most potent cancer including hydrocarbon pollutant
(a) Metals (b) Benzpyrene (c) SO_x (d) Flurocarbons
3. Smog is combination of two words _____
(a) PAN (b) Ozone (c) CO & NO_x (d) Smoke & Fog 4.
4. _____ is the example of persistent organic pollutants
(a) PCB (b) PAH (c) Hg (d) Both A and B
5. _____ is not source of heavy metal pollution
(a) Mining (b) metallurgical operation (c) Pigment waste (d) Humic acid production
6. India includes more than _____ families of terrestrial vertebrates
(a) 120 (b) 100 (c) 90 (d) 80
7. _____ is the outer most part of a biosphere reserve
(a) Transition zone (b) Buffer zone (c) Core zone (d) None of Above
8. Family Program in India could not achieve up to present goal due to _____
(a) Lack of political support (b) Lack of education
(c) Male dominant thinking (d) All of above
9. _____ problem is associated with population explosion
(a) Loss of forest cover (b) Mismanagement of lands
(c) Population (d) All of Above
10. India is one of the _____ megadiversity of the world
(a) 206 (b) 54 (c) 12 (d) 20

Q.2. Answer the following in brief (Any Ten)

(20)

1. Define: "Air Pollution"
2. How particulate matters affects human?
3. Discuss stationary and mobile sources of air pollution
4. Give a short note on Eutrophication
5. Write a note about "bio magnification"
6. Discuss in brief: bio-concentration
7. Describe three levels of biodiversity
8. Write a note on quantitative criteria to determine for threatened taxon
9. Enlist major wildlife zones of India
10. Discuss: Population stabilization in India
11. Give a short note on habitat fragmentation
12. Enlist significant strategies for land use management

Q.3 (a) Write a note on carbon monoxide as air pollutant

(05)

(b) Discuss: SO_x with its effects

(05)

OR

Q.3 (a) Give effects of NO_x on materials and human health

(05)

(b) Describe hydrocarbons as air pollutant

(05)

Q.4 (a) Write a detail note on Water Pollution

(06)

(b) Discuss: How organic pollutants affect on human health?

(04)

OR

Q.4 (a) How plants responds to heavy metals: Discuss

(06)

(b) Give sources of heavy metal in aquatic ecosystem

(04)

Q.5 (a) Write a note on methods to measure species diversity

(05)

(b) Give a short note on endangered reptile species of India

(05)

OR

Q.5 (a) Discuss in detail on Sacred Groves

(05)

(b) Write a detail note on Western Ghats as a wildlife zone of India

(05)

Q.6 Give a detail account on renewable biological resources

(10)

OR

Q.6 Write a detail note on strategies of biodiversity in detail

(10)

X=X=X

(2)