

SEAT No. _____

No. of Printed Pages : 2

[43/A14]

SARDAR PATEL UNIVERSITY
T. Y. B. Sc. (SIXTH SEMESTER) EXAMINATION

2018

WEDNESDAY, 28th MARCH

Time: 10.00 a.m. to 01.00 p.m.

US06CENV02 (ENVIRONMENTAL SCIENCE)
(ENVIRONMENTAL TOXICOLOGY)

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

2. Figures to the right indicate the full marks of sub question

3. Draw neat and labelled diagrams wherever necessary

Maximum Marks: 70

Q. 1. Multiple choice questions

(10)

- _____ is where equilibrium concentration of the organism is higher than that in its food.
a. Bioconcentration b. Bioavailability c. Bioconversion d. Biomagnification
- Contaminant transport in air occurs primarily by _____ processes.
a. Diffusional b. Decompositional c. Evaporational d. All of these
- _____ is the example of chemical exposure symptom.
a. Raynaud's b. HAVS c. Muscle pains d. Flu-like symptoms
- _____ stores food in a vacuum environment, usually in an air-tight bag or bottle.
a. Pickling b. Vacuum-packing c. Heating d. Freezing
- It is recommended to wear hearing protection when noise exceeds _____.
a. 90 dBA b. 80 dBA c. 85 dBA d. 70 dBA
- _____ is now considered teratogen causing embryo toxicity.
a. Mercury b. Lead c. Arsenic d. Chromium
- _____ chromium is powerful oxidant and can pass through RBC membrane.
a. Monovalent b. Bivalent c. Trivalent d. Hexavalent
- Organic mercury has greater affinity for the _____.
a. Stomach b. Kidney c. Intestine d. Brain
- _____ can cause severe headache and hypertension by tyramine from tyrosine.
a. Cheese b. Chocolate c. Coffee d. Tea
- Pathological symptoms appearing at the specified concentrations are called _____.
a. Side-effect b. Overdose c. Lower dose d. No-effect

(1)

(P.T.O.)

Q. 2. Answer the following questions in short (Any Ten) (20)

1. What is chemodynamics?
2. What is occupational Toxicology?
3. What is Accumulation *sensu lato* and *sensu stricto*?
4. Write a brief note on Pickling.
5. Explain: Purpose of food safety inspection.
6. Write a short note on best practices of Industrial Hygiene.
7. Write the symptoms of fluoride toxicity.
8. Name different species of Mercury with their toxic effects.
9. What is Itai Itai disease?
10. What is homicide?
11. List types of food additives commonly used.
12. What is food intolerance?

Q. 3. (a) Write a note on Biological monitoring. (05)

(b) Give details about effects of ecotoxicity on Community. (05)

OR

Q. 3. Write a detailed note on chemical transport between phases. (10)

Q. 4. (a) Explain in detail Industrial Hygiene and role of industrial hygienist. (05)

(b) Write a note on food poisoning with causes of food poisoning. (05)

OR

Q. 4. (a) Write a note on General Guidelines to Prevent Food Poisoning. (05)

(b) Discuss Food Protection Program and National diet and nutrition survey. (05)

Q. 5. (a) Illustrate the Preventive measures of Cadmium toxicity. (05)

(b) Describe the toxic effects of Lead. (05)

OR

Q. 5. (a) Write a short note on: Minamata disease. (05)

(b) Write a note on Chromium Toxicity. (05)

Q. 6. Write a detailed note on safe home food storage. (10)

OR

Q. 6. (a) Name direct food additives and describe any one in detail. (05)

(b) Write briefly about acute and chronic intoxication. (05)