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B.PHARM
15PH306**3rd Semester Regular Examination 2016-17****ENVIRONMENTAL SCIENCE****(According to New Syllabus)****BRANCH(S): Pharmacy****QUESTION CODE: Y521****Time: 3 Hours****Max Marks: 100****Answer Part-A which is compulsory and any four from the Part-B.****The figures in the right hand margin indicate marks.****Part-A (Answer the following)****Q.1****Choose the correct answer:****(2 x 10)**

- a) A high Biological Oxygen Demand (BOD) indicates that:
- Water is pure
 - Absence of microbial action
 - Low level of microbial pollution
 - High level of microbial pollution
- b) Which of the following is a likely characteristic of hazardous waste?
- Ignitability
 - Corrosivity
 - Reactivity
 - Any of the above
- c) Biotic environment includes
- Producers
 - Consumers
 - Decomposers
 - All of the above
- d) Which of the following is not an air pollutant?
- Smoke
 - Carbon Dioxide
 - Nitrogen Gas
 - Sulphur Dioxide
- e) Which of the following plays an important role in the cause of rainfall
- Evaporation
 - Condensation
 - Both evaporation & condensation
 - Filtration

- f) Fluoride pollution mainly affects:
- (a) Kidney
 - (b) Brain
 - (c) Heart
 - (d) Teeth
- g) Which of the following does not cause soil erosion?
- a) Wind
 - b) Overgrazing
 - c) Sun
 - d) Water
- h) Problem of solid waste disposal can be reduced through.....
- a) Recycling
 - b) Lesser pollution
 - c) More timber
 - d) Population control
- i) Layer of atmosphere in which Ozone layer lies is
- a) exosphere
 - b) mesosphere
 - c) troposphere
 - d) stratosphere
- j) The group of organisms which convert light into food are called
- a) Autotrophs
 - b) Heterotrophs
 - c) Decomposers
 - d) Omnivores

Q.2 Answer the following:

(2x10)

- a) What do you mean by 'RO'?
- b) What are non-criteria pollutants? Give examples.
- c) Distinguish between BOD and COD.
- d) What are the waste minimization techniques?
- e) Define Food chain and Food web.
- f) Write the name of different kind of Indian soils.
- g) Define 'Life cycle assessment'.
- h) What are coagulants? Write the name of three.
- i) Distinguish between Pyrolysis and Combustion.
- j) What are biomedical wastes? Write down some examples.

Part-B (Answer any four questions)

- Q.3** a) Define Ecology. Write down the principle of ecology **5**
b) What do you mean by Ecosystem? Classify it, write down the function and components of ecosystem. **2+8**
- Q.4** a) Write down the physical properties of sound. **5**
b) What is noise pollution? Discuss in detail about the causes, effects and control of noise pollution. **2+8**
- Q.5.** a) Define air pollution, classify the air pollutant and write down about criteria pollutant. **2+8**
b) What is Global warming? Write down its effect. **5**
- Q.6** a) What is MSW? Write down the collection and storage process of MSW. **5**
b) Write down the source and management of hazardous waste. **4+6**
- Q.7.** a) What are the benefits of waste minimization? **5**
b) What is EIA? Discuss the procedure and preparation of EIS? **10**
- Q.8** a) Describe activated sludge treatment process. **6**
b) What are the causes of ground water pollution? Write down the conventional water treatment process **3+6**
- Q.9** **Write notes on:- (Any three)** **5x3**
a) Soil degradation
b) Anaerobic digestion and its application
c) Environmental auditing
d) Hydrological cycle
e) Green house effect