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B.E. III Semester (CGPA) Civil Engg. Examination 2018

ENVIRONMENTAL ENGINEERING-I

Paper - CE -301

Time Allowed: Three Hours] [Me

[Maximum Marks: 60

Note: Attempt all questions. Each question carry equal marks.

Q.1. Choose the correct answer.

 $5 \times 2 = 10$

- i) Minimata disease was caused by
 - (a) Mercury Poisoning
 - (b) Uranium poisoning
 - (c) Cobalt poisoning
 - (d) None of the above

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(2)

- ii) Particulate matter present in the exhaust gases of thermal power plant can be collected by
 - (a) Bag filter
 - (b) ESP
 - (c) Cyclone separator
 - (d) All of the above
- iii) According to WHO the highest noise which a human can hear with discomfort is
 - (a) 40 dB
- (b) 60 dB
- (c) 80 dB
- (d) 100 dB
- iv) Uranium is the
 - (a) Hydro fuel
 - (b) Fossil fuel
 - (c) Nuclear fuel
 - (d) Petroleum
- v) Maintenance of harmonious relationship between human being and environment is the objective of
 - (a) EIA

- (b) EDA
- (c) PLCA
- (d) DFE

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(3)

- Write an informative details on flow of energy Q.2. a) in the ecosystem. What is the role of producers, consumers and reducers in food web.
 - Describe the segment of environment and their role in the ecosystem.

OR

write short notes on

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- Genetic Biodiversity
- EL-Nino phenomenon
- What are the geochemical cycles? Depict Nitrogen cycle and discuss its salient features.
- What is the concept of aerobic treatment Q.3. a) process of water? What are the demerits of oxidation pond.
 - Define 'TOC' Total Organic Carbon. Why non-biodegradable organics are considered to be more harmful than biodegradables?

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- c) What do you understand by open and closed aqueous system? What are the characteristics of lentic system.
- Justify the need of primary treatment of waste water. What is the significance of neutralization in primary treatment.
- Define air pollution what are the various Q.4. a) photochemicals reactions which ultimately caused photochemical smog in the atmosphere.
- How bag filters help in the cleaning of air particulates? Depict complete process. 3

OR

- What do you understand by temperature inversion? Discuss relationship of DALR i.e. Dry Adiabatic Lapse rate and ELR environmental lapse rate.
- Differentiate between primary and secondary pollutants? How NO, and SO, leads to acid rains.

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- What are the biological solid waste? How O.5. hospital waste can be disposed of safely? 5
 - b) Discuss the role of acoustic absorptive silencers to control traffic pollution.

OR

- Write short notes on
 - Radioactive Pollution and i)
 - Soil pollution
- On the basis of merits and demerits comments on land filling solid waste disposal method.
- How EA i.e. Environmental Audit can help in Q.6. a) sustainable development of the society.
 - What do you know about-IEE? Explain with flow chart.

OR

Justify Pollution control laws are must towards conservation of environment.

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(6)

- Write short informative notes on
 - IEE i.e. Initial Environmental i) Examination
 - EIA i.e. Environment Impact Assessment

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