

Roll No.

Total No. of Questions : 5]

[Total No. of Printed Pages : 4

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B.E. 3rd Semester (CGPA) Civil Engg.

(Zero Sem.) Examination-2018

ENV. ENGG.-I

Paper-CE-301

Time : 3 Hours]

[Maximum Marks : 60

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

1. (a) What is global warming ? What are the causes and impacts of global warming ? 6
- (b) Write an explanatory note on flow of energy in the ecosystem ? Illustrate the carbon cycle. 6

or

- (a) What is 'Biodiversity' ? Discuss the significances and uneven distribution on earth surface. 4

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- (b) Write effective notes on : 8
- (i) EL-Nino phenomenon
 - (ii) Soil pollution
2. (a) What do you understand by 'stratification' of aquatic system ? Comment on thermal stratification. 7
- (b) For what reasons minimata disease is known ? Discuss with adverse effect of poisoning. 5
- or
- (a) Trickling filter process is an aerobic or anaerobic process ? Explain with complete flow chart and diagram. 8
- (b) Distinguish between lentic and lotic aquatic system.. 4
3. (a) What is the cause of temperature inversion in the atmosphere ? Comments on lapse rate variation in the atmosphere. 6

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(2)

- (b) What is the cause of Acid rains ? Discuss with complete reactions of atmosphere which leads to acid rains. 6

or

- (a) Are particulates primary pollutants ? How electrostatic precipitators work to remove/control particulates ? 6

- (b) What do you understand by absorption technique of air pollutants ? How SO_2 can be sampled by this technique ? 6

4. (a) Write the name of various methods for solid waste disposal. Why composting is advantageous over incineration disposal of solid waste. 8

- (b) Distinguish between noise and sound. Suggest suitable acoustic absorptive material for various noise zone area. 4

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or

- (a) What are the causes of Radioactive pollution ? How it can be minimized ? 6
 - (b) Write short informative notes on : 6
 - (i) Biological characteristics of solid waste
 - (ii) Agriculture waste
- 5.
- (a) Write down the objectives and benefits of EIA ? How public participation can influence EIA ? 6
 - (b) What is RA (Risk Assessment) ? How it is concerned with TLV and LD₅₀ ? Explain with example. 6

or

- (a) What is the applicability and importance of Environmental Audit i.e. EA: 5
- (b) Define EIS i.e. Environmental Impact Statement. How these are prepared ? Explain the full process through flow-chart. 7

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