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Seventh Semester B.E. Degree Examination, July/August 2022 Environmental Protection and Management

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Give a brief about business charter for sustainable product and consumption. (10 Marks)
b. What is environmental stewardship? Explain the importance in detail. (10 Marks)

OR

- 2 a. Define systems approach to corporate planning in terms of an EMP. (10 Marks)
b. Enumerate national policies on environment and legal framework in India. List six environmental laws promulgated in India. (10 Marks)

Module-2

- 3 a. Discuss environmental quality objectives. (10 Marks)
b. What do we mean by cleaner production and cleaner technologies? (10 Marks)

OR

- 4 a. Discuss in detail environmental performance evaluation and performance indicators. (10 Marks)
b. Explain the importance of environmental aspect and impact analysis. (10 Marks)

Module-3

- 5 a. Discuss in detail all the modalities of an IER. (10 Marks)
b. Prepare a detailed IER for an engineering college, comprising the details. (10 Marks)

OR

- 6 a. Enumerate similarities and differences between ISO 14001 : 2015 and EMAS. (10 Marks)
b. Discuss EMS as per ISO 14001, the benefits and barriers of EMS. (10 Marks)

Module-4

- 7 a. Discuss legislative requirements of EMS. (10 Marks)
b. Discuss competence, training and awareness for an EMS. (10 Marks)

OR

- 8 a. Discuss the key skills to look for in an environmental auditor. (10 Marks)
b. Discuss in detail ISO – 19011 in light of EMS. (10 Marks)

Module-5

- 9 a. How does an internal EMS audit plan work? (10 Marks)
b. Prepare a detailed EMS plan for an organization specializing in chip manufacturing. The plant has three major units, i) Chip manufacturing unit ii) Software development cell iii) Efficient treatment plant. It houses 200 employees at various levels. An IER was performed and it was found that the organization shall be closed if they continue the operations and no system exists for pollution prevention. The management has shown commitment to develop an EMS and get ISO 14001 certification. (10 Marks)

OR

- 10 a. Discuss disposal procedures of hazardous wastes. (10 Marks)
b. Discuss in detail the waste audit and pollution prevention opportunities in a doing industry. (10 Marks)

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