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B.E. / B.TECH. DEGREE EXAMINATIONS, MAY 2024

Sixth-Semester

OP18008 – BASICS OF ENVIRONMENTAL SAFETY*(Common to All branches)***(Regulation 2018/2018A)****TIME: 3 HOURS****MAX. MARKS: 100**

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Understand and evaluate the scope, importance and impacts of human activities through Environment impact Assessment.	2
CO 2	Develop an effective Environment Safety management system by implementing modern methods of data programming and management, for enhancing safety, health, and environmental practices in industries.	3
CO 3	Inculcate environmental awareness and sustainability and emphasizes the roles of government, legal aspects, NGO involvement, and national committees in environmental protection.	3
CO 4	Enhances industrial safety by comprehensively addressing the causes and factors of accidents and also provides foundational knowledge on first aid and fire-fighting fundamentals and equipment.	2
CO 5	Advocates effective housekeeping, adhering to safety rules, and addressing adverse health effects associated with noise, vibration, temperature extremes, illumination, thermal radiation, ionizing, and non-ionizing radiations.	2

PART- A (10 x 2 = 20 Marks)*(Answer all Questions)*

	CO	RBT LEVEL
1. Why is it important to consider the potential negative impacts of a project in EIA?.	1	2
2. List any two benefits of conducting Environmental Impact Assessment (EIA) before implementing development projects.	1	2
3. Mention some of the primary sources of information for safety, occupational safety, health and environmental safety management in industrial settings.	2	3
4. Provide an example of a fire extinguishing method suitable for electrical fires.	2	3
5. Mention any four major roles of a citizen in reducing pollution.	3	3
6. Identify two human activities contributing to soil pollution.	3	3
7. What are the two types of costs associated with workplace accidents.?	4	2

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| 8. 1. Name two common injuries caused by lifting heavy objects. | 4 | 2 |
| 9. State two reasons why safety rules are essential in industrial workplaces? | 5 | 2 |
| 10. Name two health risks associated with prolonged exposure to non-ionizing radiation. | 5 | 2 |

PART- B (5 x 14 = 70 Marks)

	Marks	CO	RBT LEVEL
11. (a) Explain the purpose of Environmental Impact Assessment (EIA) in the context of sustainable development.	(14)	1	2
(OR)			
(b) Explore the historical evolution of Environmental Impact Assessment (EIA) in India.	(14)	1	2
12. (a) Describe the process involved in compiling and collating information related to safety, occupational safety, health, and environment management in industrial settings.	(14)	2	2
(OR)			
(b) Discuss the role of modern methods of programming, storing, and retrieval in Management Information Systems (MIS) for Safety, Health, and Environment (SHE) management.	(14)	2	2
13. (a) Explain nuclear pollution with one case study.	(14)	3	3
(OR)			
(b) How can you, as an individual, prevent environmental pollution? Why such an effort at individual level is important?	(14)	3	3
14. (a) Investigate how injuries can occur during lifting activities, considering factors such as improper technique, overexertion, and lack of training.	(14)	4	3
(OR)			
(b) Discuss one fire extinguishing method and its applicability in different fire scenarios.	(14)	4	3
15. (a) Explain the importance of proper selection and use of protective clothing and equipment in ensuring worker safety in industrial environments.	(14)	5	2
(OR)			
(b) Describe the significance of maintaining good housekeeping practices in	(14)	5	2

industrial workplaces for ensuring safety and preventing accidents.

PART- C (1 x 10 = 10 Marks)

(Q.No.16 is compulsory)

Marks	CO	RBT LEVEL
(10)	3	3

- 16.** Write comprehensive notes on
- (i) Floods
 - (ii) Landslides
 - (iii) Cyclones
