

C 81320

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Name.....

Reg. No.....

FOURTH SEMESTER P.G. DEGREE EXAMINATION, MARCH 2020

(CCSS)

Environmental Sciences

ES 4E 20—ENVIRONMENT, OCCUPATIONAL HEALTH AND SAFETY

(2015 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer any two of the following.

Each answer not to exceed 500 words.

1. How can tanneries and cement industries cause health problems to workers? What are the standard practices in the aforesaid industries to ensure safety of workers?
2. Discuss the safety issues related to thermal and nuclear power plants.
3. Comment on various monitoring and managing systems for guaranteeing occupational hygiene.

(2 × 10 = 20 marks)

Part B

Answer any eight of the following.

Each answer not to exceed 250 words.

4. Comment on chemical hazards.
5. What are the common characteristics of occupational diseases?
6. List out the health effects of radiation.
7. What are the environmental and health effects of pesticides?
8. Explain the effects of acid rain on environment and materials.
9. Write a short note on occupational hygiene. How it can be ensured?
10. What are the health effects of thermal power plants?
11. Explain the considerations taken for an effective safety management system.

Turn over

12. List out the various gaseous pollutants released from industries.
13. Write a note on disposal of radio waste.

(8 × 5 = 40 marks)

Part C

Answer any ten of the following.

Each answer not to exceed a paragraph.

14. What are VOCs ?
15. List out some physical hazards associated with occupation.
16. What is contact dermatitis ?
17. Write some hazards associated with cement industry.
18. What is Safety Data Sheet ?
19. What is thermal emission ?
20. Give some examples for ionizing radiations.
21. What is fly ash ?
22. What do you understand by 'emergency preparedness' ?
23. Write some problems associated with food industry.
24. What is the safe limit of noise to human beings ?
25. What are musculoskeletal disorders ?

(10 × 2 = 20 marks)