

HSSE Past Year MCQ Questions and Answers

1. What is the primary goal of environmental health?

- A) To reduce pollution
- B) To improve human health through environmental protection
- C) To increase industrial productivity
- D) To promote sustainable energy use

Answer: B) To improve human health through environmental protection

2. Which of the following is a common indoor air pollutant?

- A) Carbon dioxide
- B) Nitrogen
- C) Radon
- D) Oxygen

Answer: C) Radon

3. What is the purpose of the Occupational Safety and Health Administration (OSHA)?

- A) To regulate environmental pollution
 - B) To ensure workplace safety and health
 - C) To manage hazardous waste
 - D) To promote renewable energy sources
- Answer: B) To ensure workplace safety and health

4. Which practice is essential for maintaining good personal hygiene to prevent environmental health issues?

- A) Using public transportation
- B) Regular hand washing
- C) Avoiding processed foods
- D) Reducing energy consumption

Answer: B) Regular hand washing

5. What is the term for the process of removing harmful substances from contaminated water?

- A) Filtration
- B) Purification
- C) Disinfection
- D) Sedimentation

Answer: B) Purification

6. Which of the following is a common method to control noise pollution?

- A) Installing air filters
- B) Using noise barriers
- C) Increasing ventilation
- D) Reducing chemical use

Answer: B) Using noise barriers

7. What does the acronym PPE stand for in environmental health and safety?

- A) Personal Protective Equipment
- B) Public Pollution Emission
- C) Primary Protective Environment
- D) Personal Pollution Equipment

Answer: A) Personal Protective Equipment

8. Which chemical is commonly associated with the risk of causing cancer?

- A) Carbon monoxide
- B) Asbestos
- C) Sulfur dioxide
- D) Nitrogen dioxide

Answer: B) Asbestos

9. What is the primary purpose of an Environmental Impact Assessment (EIA)?

- A) To evaluate the financial cost of a project
- B) To assess the potential environmental effects of a project
- C) To improve workplace productivity
- D) To manage hazardous materials

Answer: B) To assess the potential environmental effects of a project

10. Which of the following is a key component of a safety data sheet (SDS)?

- A) Product name
- B) Manufacturer's contact information
- C) Hazard identification
- D) All of the above

Answer: D) All of the above

11. Which law regulates the disposal of hazardous waste in the United States?

- A) Clean Air Act
- B) Resource Conservation and Recovery Act (RCRA)
- C) Endangered Species Act
- D) Safe Drinking Water Act

Answer: B) Resource Conservation and Recovery Act (RCRA)

12. What is the primary method used to prevent the spread of infectious diseases in a workplace setting?

- A) Providing vaccines
- B) Implementing infection control practices
- C) Increasing workplace ventilation
- D) Reducing noise levels

Answer: B) Implementing infection control practices

13. Which type of radiation is most commonly associated with health risks from prolonged exposure?

- A) Alpha radiation
- B) Beta radiation
- C) Gamma radiation
- D) Ultraviolet radiation

Answer: C) Gamma radiation

14. What is the primary source of lead contamination in residential areas?

- A) Radon gas
- B) Pesticides
- C) Lead-based paint
- D) Industrial emissions

Answer: C) Lead-based paint

15. Which of the following is a common sign of chemical exposure in the workplace?

- A) Skin rash
- B) Increased productivity
- C) Improved air quality
- D) Decreased noise levels

Answer: A) Skin rash

16. What does the term “biodegradable” refer to?

- A) A substance that can be broken down by microorganisms
- B) A substance that is resistant to decay
- C) A substance that does not affect the environment
- D) A substance that can be recycled indefinitely

Answer: A) A substance that can be broken down by microorganisms

17. Which of the following is a common source of air pollution in urban areas?

- A) Forest fires
- B) Agricultural runoff
- C) Vehicle emissions
- D) Volcanic eruptions

Answer: C) Vehicle emissions

18. What is the primary purpose of an emergency response plan in environmental health and safety?

- A) To comply with regulatory requirements
- B) To improve employee morale
- C) To prepare for and manage emergencies effectively
- D) To reduce operational costs

Answer: C) To prepare for and manage emergencies effectively

19. Which type of waste is considered hazardous and requires special handling?

- A) Organic waste
- B) Recyclable waste
- C) E-waste
- D) Radioactive waste

Answer: D) Radioactive waste

20. What is the primary goal of environmental safety management in industrial settings?

- A) To increase production efficiency
- B) To minimize environmental and health risks
- C) To reduce operating costs
- D) To expand market reach

Answer: B) To minimize environmental and health risks

21. Which term describes the practice of reducing, reusing, and recycling materials to minimize waste?

- A) Waste management
- B) Waste minimization
- C) Resource conservation
- D) Environmental stewardship

Answer: B) Waste minimization

22. What type of safety equipment is used to protect the eyes from hazardous materials?

- A) Earplugs
- B) Safety goggles
- C) Respirators
- D) Gloves

Answer: B) Safety goggles

23. Which type of pollution control device is used to reduce emissions from industrial processes?

- A) Air filter
- B) Wastewater treatment plant
- C) Scrubber
- D) Incinerator

Answer: C) Scrubber

24. What is the main purpose of conducting a risk assessment in environmental health and safety?

- A) To identify potential hazards and evaluate risks
- B) To increase productivity
- C) To enhance employee satisfaction
- D) To improve financial performance

Answer: A) To identify potential hazards and evaluate risks

25. Which organization is responsible for regulating and ensuring the safety of drinking water in the United States?

- A) Environmental Protection Agency (EPA)
- B) Occupational Safety and Health Administration (OSHA)
- C) Food and Drug Administration (FDA)
- D) Centers for Disease Control and Prevention (CDC)

Answer: A) Environmental Protection Agency (EPA)

26. What is the purpose of a safety audit in an organization?

- A) To evaluate financial performance
- B) To review compliance with safety regulations and identify areas for improvement
- C) To increase production efficiency
- D) To develop new products

Answer: B) To review compliance with safety regulations and identify areas for improvement

27. Which of the following is a key component of ergonomic safety in the workplace?

- A) Proper lighting
- B) Adjustable workstations
- C) Noise reduction
- D) Air filtration

Answer: B) Adjustable workstations

28. What is the main health risk associated with prolonged exposure to ultraviolet (UV) radiation?

- A) Lung cancer
- B) Skin cancer
- C) Hearing loss
- D) Respiratory diseases

Answer: B) Skin cancer

29. Which practice is essential for preventing slips, trips, and falls in the workplace?

- A) Installing fire alarms

- B) Providing proper footwear
- C) Implementing noise control measures
- D) Increasing ventilation

Answer: B) Providing proper footwear

30. What is the main purpose of a personal protective equipment (PPE) program?

- A) To reduce workplace injuries and illnesses
- B) To improve employee morale
- C) To enhance productivity
- D) To comply with financial regulations

Answer: A) To reduce workplace injuries and illnesses

31. Which type of safety training is designed to help employees respond effectively to emergencies?

- A) General safety training
- B) Fire safety training
- C) First aid training
- D) Emergency response training

Answer: D) Emergency response training

32. What is the primary function of an air quality monitoring system?

- A) To improve ventilation
- B) To measure and analyze air pollutants
- C) To control noise levels
- D) To manage waste disposal

Answer: B) To measure and analyze air pollutants

33. Which term describes the practice of minimizing exposure to harmful substances through proper handling and storage?

- A) Hazardous materials management
- B) Environmental protection
- C) Pollution control
- D) Resource conservation

Answer: A) Hazardous materials management

34. What is the primary health risk associated with exposure to high levels of carbon monoxide?

- A) Respiratory problems
- B) Neurological damage
- C) Cardiovascular issues
- D) Skin irritation

Answer: B) Neurological damage

35. Which type of waste includes electronic devices such as computers and smartphones?

- A) Municipal solid waste
- B) Hazardous waste
- C) E-waste
- D) Radioactive waste

Answer: C) E-waste

36. What is the primary benefit of implementing a green building certification program?

- A) To reduce energy consumption and environmental impact
- B) To increase property value

- C) To enhance aesthetic appeal
- D) To improve indoor air quality

Answer: A) To reduce energy consumption and environmental impact

37. Which type of safety hazard is associated with machinery and equipment?

- A) Chemical hazards
- B) Physical hazards
- C) Biological hazards
- D) Ergonomic hazards

Answer: B) Physical hazards

38. What is the primary focus of occupational health programs?

- A) To promote environmental sustainability
- B) To ensure workplace safety and employee well-being
- C) To reduce production costs
- D) To improve customer satisfaction

Answer: B) To ensure workplace safety and employee well-being

39. Which of the following is a common method for managing hazardous waste?

- A) Landfilling
- B) Incineration
- C) Recycling
- D) All of the above

Answer: D) All of the above

40. What is the main goal of public health initiatives focused on environmental health?

- A) To increase industrial production
- B) To promote environmental justice and health equity
- C) To enhance economic growth
- D) To improve corporate profits

Answer: B) To promote environmental justice and health equity