

CP-9851

Sub. Code

90711

P.G. DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Environment Health and Safety Management

**PRINCIPLES OF SAFETY MANAGEMENT – GENERAL
SAFETY**

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. Why safety is important?
2. Define unsafe act and unsafe condition.
3. Write any four hazards present at kitchen.
4. How to extinguish oil fire at kitchen?
5. What are the types of accidents?
6. What is MSME act, 2006?
7. Define PPE. What are the types of PPE?
8. Define hot work.
9. List out some manmade hazards.
10. Define safety training.

Part B**(5 × 5 = 25)**Answer **all** the questions.

11. (a) Explain about accident prevention at electrical sites.

Or

- (b) Explain about frequency rate, severity rate and incidence rate.

12. (a) What are the hazards and safety practices to be followed while handling LPG?

Or

- (b) Discuss about fuel saving tips for kitchen workers with safety precautions.

13. (a) Enumerate the Employee Compensations Act, 1923.

Or

- (b) Discuss about safety signage's, signals, displays and labels.

14. (a) Discuss about PPE for eye and face protection.

Or

- (b) Discuss about PPE for hand and foot protection.

15. (a) Discuss about human factors and manmade hazards associated with behavior based safety.

Or

- (b) Brainstorming session is a tool for training in safety. Explain.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Discuss in detail about safety requirements at a manufacturing industry.

Or

- (b) Discuss in detail about importance of housekeeping. Explain 5 S concepts.

17. (a) Discuss in detail about hazards present at home. Explain about domestic safety.

Or

- (b) Enumerate the MSME act, 2006 and Noise pollution rules, 2000.

18. (a) Describe about hot work. What are the PPE's required during hot work.

Or

- (b) Share your ideas and thoughts on conducting National Safety Day.
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90712

P.G. DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Environment Health and Safety Management

**FIRE PREVENTION, CONTROL AND ELEMENTARY
FIRST AID**

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define auto ignition.
2. Define vapour clouds.
3. Define fire triangle.
4. What are the types of water monitors?
5. Discuss DCP, AFFF.
6. Discuss on fire alarms and sirens.
7. Define CNG and its properties.
8. What are the type's petroleum storage tanks?
9. What is control room?
10. What are the legislation and regulation for public places?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Define about components of hydrant systems.

Or

- (b) Explain about ACTIVE and PASSIVE fire protection systems.

12. (a) Briefly explain fire exit requirements as per the Factories act 1948.

Or

- (b) What are the safety precautionary measures for customer at petrol pump?

13. (a) Write briefly about exit requirements in educational institutions.

Or

- (b) Explain about evacuation and training for fire safety in chemical laboratories.

14. (a) Explain about the heat radiation hazards level.

Or

- (b) Write a short note on common causes of fire and explosions in transportations of hazardous.

15. (a) Describe safety measures in Electric arc welding.

Or

- (b) Describe electrical safety with RCCB/RCD.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the following.
- (i) Pool fire
 - (ii) Flash fire
 - (iii) Jet fire
 - (iv) BLEVE
 - (v) UVCE.

Or

- (b) Explain emergency action plan.
17. (a) Explain Fire safety measures for fire and explosion in transport.

Or

- (b) Describe about escaping from a high rise building in case of fire.
18. (a) Explain about the Good practices in Electrical wiring for fire safety.

Or

- (b) Explain the safety precaution for handling and use of inverter.

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P.G. DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Environment Health and Safety Management

ELECTRICAL AND CHEMICAL SAFETY

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What are the electrical injuries?
2. Write the first aid procedures for electrical injuries.
3. What is ELCB?
4. What are the hazards present in static electricity?
5. List out the air contaminants.
6. What are routes of entry for chemicals?
7. What is the treatment for electric shock?
8. What are the general duties of the authorities?
9. Write the preparation of offsite emergency plan.
10. What is a capacitor?

Part B**(5 × 5 = 25)**Answer **all** questions.

11. (a) Write the instructions to avoid electrical injuries in detail.

Or

- (b) What are the recommendations for better use of light energy?

12. (a) What are the methods for control of static electricity?

Or

- (b) Explain earthing and bonding.

13. (a) Write short notes on solvents and their hazards.

Or

- (b) Write short notes on acids and bases.

14. (a) Write the general duties of the occupier under the section 7-A (1) &(2) (a) (c).

Or

- (b) Explain the general duties of the manufacturer under the section 7-B.

15. (a) Explain the notification of the major chemical accident.

Or

- (b) List out the various sections of MSDS.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) What is the clearance above ground of the lowest conductor according to IE Rule 77?

Or

- (b) Explain the static electricity, hazards associated with static electricity and also write the control measures for it.
17. (a) Explain the classification of flammable liquids and write the control measures for it.

Or

- (b) Explain the static electricity, hazards associated with static electricity and also write the control measure for it.
18. (a) What are the details to be furnished in Offsite Emergency Plan?

Or

- (b) Explain the classification of flammable liquids and write the control measures for it.
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P.G. DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Environment Health and Safety Management

INDUSTRIAL SAFETY AND RISK MANAGEMENT

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. Explain the classifications in “KLETZ’ method of layered.
2. Define safety performance index.
3. What is the role of safety professional?
4. Define HAZOP.
5. What are the types of accident occur in industries?
6. What is static electricity?
7. Write about Mechanical aids/equipment in lifting.
8. Write Faulty Handling of Equipments.
9. What is meant by Lapse in Safety Organizations? What is meant by Horse Play?
10. Write about “HAZCHEM” safety card.

Part B**(5 × 5 = 25)**Answer **all** the questions.

11. (a) Explain about upgrading developmental programs in safety.

Or

- (b) Draw 'stages to an accident' and analytical "SMBO" model.

12. (a) Define ERP and Explain in details about On-Site ERP and Off-Site ERP.

Or

- (b) Explain in detail about Establishment of an Industrial Safety Policy.

13. (a) List out the physical hazards in workplaces.

Or

- (b) What is chemical detoxification?

14. (a) Why we implement permit to work in site?

Or

- (b) Explain about Gas Cutting Contaminated Drum.

15. (a) Explain the investigative report and findings of "lack of safety procedure" case study.

Or

- (b) Explain about collapse of a Jib Crane in detail.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Explain the following.
- (i) Layered Method and its types
 - (ii) Causative factors.

Or

- (b) Explain the EPPR.
17. (a) Explain case study in detail about “Machine and Equipment”.

Or

- (b) Explain forklift hazard control.
18. (a) Explain in detail about “Bhopal Gas Tragedy” case study.

Or

- (b) Explain case study in detail about “Process and Chemical Handling”.
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90715

P.G. DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Environment Health and Safety Management

**OCCUPATIONAL, HEALTH AND SAFETY
MANAGEMENT**

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. Write about Sanitary facilities.
2. What is PPE?
3. What is masking noise?
4. Briefly explain about proper foot wear.
5. Write about work place inspection.
6. Explain briefly about good work.
7. What are the types of glare?
8. Define Exposure Limit.
9. What is Ergonomics?
10. What are the three main causes of accidents?

Part B

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Briefly explain about the safety measures to avoid eye injuries.

Or

- (b) Write a short note on Good House Keeping.

12. (a) Discuss in detail about Lighting.

Or

- (b) Explain in detail about methods of noise control.

13. (a) Briefly explain about Ventilation in car plants and workshops.

Or

- (b) Write about atmospheric pollution.

14. (a) Explain in detail about work organization and job content.

Or

- (b) Discuss in detail about Lifting.

15. (a) Write short notes on Welfare facilities.

Or

- (b) Briefly explain the functions of Safety committee.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Explain in detail about Occupational skin diseases.

Or

- (b) Write short notes on First aid.

17. (a) Discuss in detail about Shift work.

Or

(b) Write short notes on personal protective equipments.

18. (a) Briefly explain about Sitting and Standing Positions, Visual conditions.

Or

(b) Briefly explain about Body heat balance and give the protection against heat.

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90716

P.G. DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Environment Health and Safety Management

ENVIRONMENTAL SAFETY AND EHS LAWS

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. Write about Environmental Organization
2. What is PPE?
3. What do you mean by Environmental Policy?
4. What is Ventilation?
5. Write about Lighting.
6. Explain briefly about Environment (Protection) Act 1986.
7. Write about Hoists and Lifts.
8. Define Plant Hygiene.
9. Write about Air (Prevention and Control of Pollution) Act 1981.
10. What are the Radiation of Hazards?

Part B**(5 × 5 = 25)**Answer **all** the questions.

11. (a) Briefly explain about Environmental awareness, Education and information.

Or

- (b) Write a short note on objectives of National Environmental policy.

12. (a) Discuss in detail about Water (Prevention and Control of Pollution) Act 1974.

Or

- (b) Explain in detail about Noise Standards and Noise control requirements.

13. (a) Briefly explain about EHS Committee.

Or

- (b) Write about Personal Protective Equipments.

14. (a) Explain in detail about Ladder Safety.

Or

- (b) Discuss in detail about Guarding of machineries.

15. (a) Write short notes on Industrial Hygiene and Workplace monitoring.

Or

- (b) Briefly explain about First Aid.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Explain in detail about PTW.

Or

- (b) Write short notes on Safety in Scaffolding.

17. (a) Discuss in detail about Hazardous waste management and Handling Rules 2008.

Or

- (b) Write short notes on accident investigation and reporting.

18. (a) Briefly explain about the Safety precautions while using compressed gas Cylinders.

Or

- (b) Briefly explain about Safety in Handling and Storage of Hazardous Chemicals.
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90717

P.G. DIPLOMA EXAMINATION, NOVEMBER 2018

Non-Semester

Environment Health and Safety Management

CONSTRUCTION SAFETY MANAGEMENT

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write about Excavation hazards.
2. What is Good Housekeeping?
3. What is First Aid?
4. Briefly explain about Slipping and Tripping Hazards.
5. Write about IS 13827: 1993.
6. Explain briefly about maintenance and storage of scaffolding.
7. What are the common causes for fire at site?
8. How will you inspect excavations?
9. What are hazards in scaffolding?
10. Write the Salient features of NBC 2005.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Briefly explain about Safety work cycles at construction sites.
Or
(b) Write a short note on the central rule 1998 highlights.
12. (a) Discuss in detail about Hygiene & First Aid.
Or
(b) Explain in detail about Working near fragile material.
13. (a) Briefly explain about Welding and Cutting Safety.
Or
(b) Write about Emergency preparedness.
14. (a) Explain in detail about IS 1893 : 1984.
Or
(b) Discuss in detail about IS 1893 – Part 4 : 2005.
15. (a) Write short notes on Safe use of portable ladders.
Or
(b) Briefly explain about Scaffolding inspections.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail about the important Safety features of Elevators by Bombay lift Rules.
Or
(b) Write short notes on Safety in Scaffolding.

17. (a) Discuss in detail about the safety tips for excavation work.

Or

- (b) Write short notes on BOCW Highlights.

18. (a) Briefly explain about Fire at project sites.

Or

- (b) Give the Safety check list for safe places of work, powered access Equipment in construction sites.

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P.G. DIPLOMA EXAMINATION, NOVEMBER 2018.

Non-Semester

Environment Health and Safety Management

SAFETY AT OIL, GAS AND NUCLEAR PROJECTS

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. What is PPE?
2. Define Safety.
3. What is confined Space?
4. What is respiration?
5. What do you mean by Excavation?
6. Write about Falling Hazards.
7. Define near miss.
8. Briefly explain about manual material handling.
9. Write about hot work.
10. What is First Aid?

Part B

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Briefly explain about Ear protection and Eye Protection.

Or

- (b) Write a short note on Safety Officer responsibilities.

12. (a) Discuss in detail about Lockout and Tag out.

Or

- (b) Explain about Confined space Safety.

13. (a) Briefly explain about Scaffolding Safety.

Or

- (b) What are the hazards in excavation? Explain in detail about safety during excavation.

14. (a) What are the safety procedures to be followed in office?

Or

- (b) Explain in detail about Fire Prevention and the use of Fire Extinguishers.

15. (a) Discuss in detail about Safety in hand tools and power tools.

Or

- (b) Write short notes on Electrical safety.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Explain in detail about Signals, Displays and Safety Signs.

Or

- (b) Write short notes on House Keeping.

17. (a) Discuss in detail about Abrasive blasting and Painting.

Or

- (b) Write short notes on Chemical Safety and MSDS.

18. (a) Briefly explain about Safety in Crane Operations.

Or

- (b) Explain in detail about respiratory protection.
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