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**P.G. DIPLOMA EXAMINATION, NOVEMBER 2019**

**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** questions.

1. Define HSE.
2. What is housekeeping?
3. List some of the safety instructions for physically challenged persons.
4. Define home safety.
5. List some of laws and regulations related to HSE.
6. Write the permissible limits of high noise levels.
7. Mention any four implementations of PPE among the employees.
8. What are the types of respiratory PPE?
9. What is mean by recognitions programs?
10. Define EHS education.

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) Describe about list of ILO conventions and recommendations on OHS.

Or

- (b) Explain about supervisory and responsibilities for safety at work place.

12. (a) Write about LPG hazards and safety practice.

Or

- (b) Write about health concerns safety at electronic devices.

13. (a) State and explain about noise pollution and its rules 2000.

Or

- (b) Write about statutory permissions and apparatus on HSE to be taken by the industries.

14. (a) Write a note PPE for head protection and body protection.

Or

- (b) How to select and use of respiratory protective equipment.

15. (a) Explain about occupational safety and health training.

Or

- (b) Discuss about health promotions training.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss about safety aspect of piped returned gas supply for domestic use.

Or

- (b) Explain about the micro, small and medium enterprises development act, 2006.
17. (a) List the check list for controlling occupational noise.

Or

- (b) (i) Discuss about listing of notifiable occupational disease.
- (ii) Write in detail about signals and display required to be provided under the legislation.
18. (a) Explain briefly about non-respiratory PPE.

Or

- (b) Explain the concepts of training and education today on safety.

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**P.G. DIPLOMA EXAMINATION, NOVEMBER 2019**

**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** the questions.

1. What is mean by fire triangle?
2. What are the types of fire?
3. Define hydrant.
4. State the hazards of LPG.
5. Define fire load.
6. What are the common causes of fire in small scale industries?
7. Mention the fire precautions while using motor vehicles.
8. What is the safety measures should be followed while doing a gas welding?
9. What are the safety measures should be followed while in luxury bus?
10. Write about common causes of electrical, fires.

**Part B**

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Describe about the alternative of halons system.

Or

- (b) Explain briefly about fire prevention and control in the building.

12. (a) Write a brief note on using LPG safety.

Or

- (b) Describe the fire hydrant system.

13. (a) Describe the design and constructional features in residential places with regards to fire safety.

Or

- (b) Write short notes on safety measures and operations in chemical warehouses.

14. (a) What to do in case of a vehicle fire? Short note on maintenance and additional precautions in motor vehicle.

Or

- (b) Explain the fire safety measures in transportation through pipelines.

15. (a) Write a short note on special requirements for high rise building regarding electrical installations.

Or

- (b) Explain about safety practices in welding and gas cutting operations.

**Part C**

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Explain the fire detection and alarm system.

Or

- (b) Describe in detail about fire insurance.

17. (a) Describe about the safety in domestic and industrial cylinders.

Or

- (b) Briefly explain customer safety at petrol pump bunk.

18. (a) Describe in detail about escaping from the high rise building.

Or

- (b) Describe about the interpretation of HAZCHEM code for road transport.

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**P.G. DIPLOMA EXAMINATION, NOVEMBER 2019**

**Non – Semester**

**Environmental Health Safety Management**

**ELECTRICAL AND CHEMICAL SAFETY**

**(2016 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** the questions.

1. What is meant by electric shock?
2. What is the effect of electric current is in human body with related to amps?
3. Write any two hazards related to static electricity.
4. What is the difference between earthing and bonding?
5. Write the classification of chemicals based Ph value.
6. Expand—MSDS, IDLH.
7. How many solutions available in factories act 1948?
8. Expand-NEC.
9. What is check list?
10. What is meant by ON- site & OFF site emergency plan?

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

11. (a) Explain the term “Improvements of illumination system”.

Or

- (b) Explain the ELCB.

12. (a) What is static electricity? What are the causes of static electricity?

Or

- (b) Explain the generation of static electricity.

13. (a) Explain the routes of entry for chemicals in our body and the effects of chemicals.

Or

- (b) What is meant by LD 50 and LC 50?

14. (a) Explain The Importance Of BOCW act 1996.

Or

- (b) Explain the classification of hazardous area for electrical installation.

15. (a) Explain the RULE-14- preparation of OFF – site emergency plan.

Or

- (b) Explain the RULE-13- preparation of ON-site emergency plan.

**Part C**

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Explain the saving of electricity – any three.

Or

- (b) Explain earthing and bonding.

17. (a) Explain the term “PROHIBITED CHEMICALS IN INDIA” and list the prohibited chemicals.

Or

- (b) Explain the various hazards related to chemicals.

18. (a) Explain the IE ACT 1910.

Or

- (b) Explain the petroleum rules 1976.

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**P.G. DEGREE EXAMINATION, NOVEMBER 2019**

**Non-Semester**

**Environmental Health Safety Environment**

**INDUSTRIAL SAFETY AND RISK MANAGEMENT**

**(2016 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What is meant by safety?
2. What is meant by safety performance?
3. What is meant by near miss?
4. What is meant by accident?
5. What is meant by confined space?
6. How to prevent from electrocution?
7. What are the effects related to the lack of procedural system?
8. What are the causes of static electricity?
9. What are the hazards related to the mis-match equipment?
10. Write some hazard related to chemical handling.

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

11. (a) How to conducts safety programming?  
Or  
(b) How to form the safety committee?
12. (a) What is meant by reportable accident?  
Or  
(b) How to avoid the hazardous substances based accident?
13. (a) What is meant by “PTW” and form the template of confined space PTW?  
Or  
(b) Explain hazardous energy control.
14. (a) How to avoid tractor overturn based accidents?  
Or  
(b) What is static electricity and how to control it?
15. (a) What are the effects of fire and explosions?  
Or  
(b) How to handle the chemicals?

**Part C****(3 × 10 = 30)**Answer **all** questions.

16. (a) Explain safety management system.  
Or  
(b) Explain detail about the indicators in safety performance.

17. (a) Explain detail about specific hazard control measure.

Or

(b) Explain detail about Bhopal gas tragedy.

18. (a) Explain any one explosion case history with control measure.

Or

(b) Explain the following term :

(i) EPPR

(ii) Compressed gas cylinders.

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**P.G. DIPLOMA EXAMINATION, NOVEMBER 2019**

**Non-Semester**

**Environment Health and Safety Management**

**OCCUPATIONAL, HEALTH SAFETY MANAGEMENT**

**(2016 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What is meant by first aid?
2. What is meant by “NIP” points?
3. What is meant by “NOISE”?
4. What is meant by fumes?
5. Write the decibel scale tabulation.
6. Write some PPE’S related to the chemicals.
7. Write any two effects of standing work place inspection?
8. Write any two advantages of group work.
9. What is meant by workplace inspection?
10. What is the difference between inspection and audit?

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

11. (a) Explain the safety requirements for machinery.

Or

- (b) Explain the causes of accidents.

12. (a) What are the types of lighting and how to control the “GLARE”.

Or

- (b) Explain the protection against card climate.

13. (a) What to do when there is an accident in chemical plant?

Or

- (b) What are the occupational skin diseases related to chemicals?

14. (a) What are the effects of poorly organized work?

Or

- (b) What is meant by group work?

15. (a) Draw the PPE sample check list.

Or

- (b) Explain the active safety committee.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the electricity and its risk at workplace.

Or

- (b) How to keep workplace much cooler?

17. (a) What are the PPE used in the chemical plant?

Or

- (b) Write in detail about method of noise control.

18. (a) Explain the laws and regulation related to the workers welfare.

Or

- (b) Explain the following term.

- (i) Hand lamp safety
  - (ii) Body heat balance
  - (iii) Hearing protectors.
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**P.G. DIPLOMA EXAMINATION, NOVEMBER 2019**

**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 the types of Pollution.
2. List out the substantive reforms.
3. Write the water, air and hazardous waste act's.
4. Name some statutory requirement for environmental pollution.
5. What are the contents available in OHS policy according to the model rule – 82 B?
6. What is the importance of machine guarding?
7. What is meant by safety training?
8. What is meant by SWL?
9. What is meant by radiation hazards?
10. What is meant by “HIGH LEVEL NOISE”?

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

11. (a) Explain water pollution.

Or

- (b) Explain review of implementation.

12. (a) Explain environment (protection) rules 1986.

Or

- (b) Explain waste water generation standards.

13. (a) Explain the some national and international standards about PPE.

Or

- (b) Explain the requirement for lighting as per factories act 1948.

14. (a) Explain the management responsibilities in fire protection.

Or

- (b) Explain the safe operating practices.

15. (a) Explain the model rule 20, 44 and 48 (plant hygiene).

Or

- (b) Explain the noise pollution (central regulation) rules 2000.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the objectives of the National Environment policy.

Or

- (b) What is orange category and list out the some industry?

17. (a) Explain some rules about PTW.

Or

- (b) What is meant by machine guarding and explain about types of machine guarding.

18. (a) Explain about medical examination and care.

Or

- (b) Explain about national ambient air quality standards.
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**P.G. DIPLOMA EXAMINATION, NOVEMBER 2019**

**Non-Semester**

**Environment Health Safety Management**

**CONSTRUCTION SAFETY MANAGEMENT**

**(2016 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What are the hazards in construction site?
2. What is hazard and near miss.
3. What are the types of scaffolding?
4. Precautions for excavation work.
5. What is MSDS?
6. What are the common causes for fire at site?
7. What is 5S concept?
8. What are the types of ladders?
9. What are the hazards in scaffolding?
10. What is the first aid for Electric shock

**Part B****(5 × 5 = 25)**

Answer **all** questions, choosing either (a) or (b).

11. (a) Define Lifting (i) Manual Lifting and (ii) Mechanical lifting.

Or

- (b) What are the hazards and control measures during the crane operation?
12. (a) What are the hazards and control measures in Excavation work?

Or

- (b) (i) What is MSDS? (ii) What are components in MSDS?
13. (a) What are the hazards and control measure in hot work (i) Welding (ii) Cutting?

Or

- (b) (i) Define ladder and its safety (ii) Types of ladders and its control measures in construction plants.
14. (a) Explain in detail the “NATIONAL BUILDING CODE OF India 2005”.

Or

- (b) Explain (i) IS 1893:1984 (ii) IS 1893-PART 1:2002.
15. (a) What is Scaffolding. What are the types of hazards and control measures associated with it?

Or

- (b) What are the safety standards for fall protection?

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail BOCW Act 1996 & Central rule 1998.

Or

- (b) What are the safety work cycle at construction site?
17. (a) What are the hazards and control measures of using cement in construction work?

Or

- (b) Briefly explain the “Transportation safety in construction site”.
18. (a) Briefly explain (i) IS 4026:1093 (ii) IS 13827: 1993 (iii) IS 13828: 1993 (iv) IS 13920: 1993 (v) 13935: 1993.

Or

- (b) Explain in detail about the Ladder safety.
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**P.G. DIPLOMA EXAMINATION NOVEMBER 2019**

**Non Semester**

**Environmental 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** questions.

1. Define – PPE.
2. What is the personal Pre Check?
3. Define LOTO.
4. What are the types of Barricade?
5. Mention the types of Scaffolding.
6. What is meant by Excavation?
7. Mention few Hand Tools?
8. What are the electrical hazards?
9. Write about 5's?
10. Define Accident.

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

11. (a) Describe the Safety induction Training?  
Or  
(b) What are the Rules for safety?
12. (a) Briefly explain about respiratory protection.  
Or  
(b) Briefly explain about compressed gas cylinders.
13. (a) Briefly explain about safety in crane operations.  
Or  
(b) Explain about chemical safety.
14. (a) Explain about prevention of falling hazard and safety.  
Or  
(b) Explain about conveyor safety.
15. (a) Explain about use of fire extinguishers.  
Or  
(b) Explain about 5's Concepts.

**Part C****(3 × 10 = 30)**

Answer all questions.

16. (a) Explain in detail about elementary first aid.  
Or  
(b) Explain in detail about safety officer responsibilities.

17. (a) Explain in detail about crane safety.

Or

(b) Explain in detail about accident and near miss reporting.

18. (a) Explain in detail about office safety.

Or

(b) Explain in detail about portable Hand and Power tools safety.

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