

**C-0717**

**Sub. Code**

**90711**

**P.G. DIPLOMA EXAMINATION, APRIL 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. What is safety?
2. Define frequency rate.
3. Write the LPG hazards.
4. What are the safety aspects of piped natural gas supply?
5. Write the regulation and controls of noise pollutions.
6. Write about safety signage, signals.
7. What is PPE?
8. What are the types of safety helmets?
9. Why the safety training is needed?
10. Define empowerment program.

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) What are the duties of a safety officer?

Or

- (b) Write about the details of accident preventions tags.

12. (a) Explain an introduction of home safety.

Or

- (b) Write about fuel saving tips for kitchen workers with safety instructions.

13. (a) Explain the employee compensations act 1923.

Or

- (b) Enumerate the notices and labels required to be provided under site legislation.

14. (a) Write a note PPE for eye protection and face protection.

Or

- (b) Write in detail about hand protection.

15. (a) Explain about EHS in safety.

Or

- (b) Discuss about the brainstorming as a tool for training in safety.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Briefly explain about safety incidents.

Or

- (b) Discuss about precautions for all hazards involved domestics work.

17. (a) Write a short notes on reporting of accidents under various statutes.

Or

- (b) Explain the types of PPE.

18. (a) Discuss about behavioural based safety training.

Or

- (b) Explain the statutory permissions and approvals on HSE to be taken by the industries.

---

<b>C-0718</b>
---------------

<b>Sub. Code</b>
------------------

<b>90712</b>
--------------

**P.G. DIPLOMA EXAMINATION, APRIL 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 are the types of detectors?
2. Write the possible of fire.
3. What are the types of petroleum products?
4. Define fire monitors.
5. What are the common causes of fire in control rooms?
6. What is housekeeping?
7. State the statues applicable to transportation of hazardous goods.
8. Mention the safety measures to transportation of hazardous goods.
9. Mention the safety precautions for handling inverter.
10. Expand ELCB, RCCB, MCCB and RCD.

**Part B**

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Explain briefly about methods of fire extinguishing.

Or

- (b) Write a brief note on possible of fire.

12. (a) Describe the types of products and storage in petroleum.

Or

- (b) Write a short note on fire water pump, monitors and foam system in a tank system.

13. (a) Describe the safety measures to escape from a high rise building in case of fire.

Or

- (b) Explain the causes of fire regulations in small scale industries.

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

Or

- (b) Explain briefly ventricular use of CNG.

15. (a) Write a description about basic requirements of firefighting equipment in DG sets, Gas turbine generators.

Or

- (b) Describe the hazardous and safety precautions for handling inverter.

**Part C**

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Write in detail about fire hydrant system.

Or

- (b) Write in detail about safety provisions on fire preventions and control in the building and other constructions workers.

17. (a) Describe in detail about fire safety measures taken in godowns.

Or

- (b) Describe about the Do's and Dont's for safe handling and use of inverter.

18. (a) Explain in detail about fire safety in ELCB, RCCB and MCCB.

Or

- (b) Explain briefly about safety measures in small scale industries.

---

<b>C-0719</b>
---------------

<b>Sub. Code</b>
------------------

<b>90713</b>
--------------

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

**Non Semester**

**Environmental, 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 is meant by ELCB?
2. How to avoid electrical injuries and write any “5” points?
3. What is static electricity?
4. Write the methods for control of static electricity.
5. Write the routes of entry for chemical in our body.
6. What are the PPE's used in the chemical handling?
7. How many chapters are available in IE act 1910?
8. What are the types of hazardous area for electrical installation?
9. What is meant by “EMERGENCY PLAN”?
10. What is meant by MSDS?

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain the types of electrical hazards.

Or

- (b) Explain the first aid procedure for electrical hazard.

12. (a) Explain the hazards of static electricity.

Or

- (b) Explain the methods for control of static electricity.

13. (a) Explain the precaution for chemical hazards.

Or

- (b) Explain the acute and chronic effect with example.

14. (a) What is the importance of BOCW ACT 1996?

Or

- (b) Explain the NEC-IS : 5572.

15. (a) Explain the safety in handling of chemicals.

Or

- (b) Explain the Rule no 18- imports of hazardous chemicals.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the checklist for initial inspection of electrical installation.

Or

- (b) Explain the earthing and bonding.



17. (a) What are the PPE's are used in the chemical handling and storage?

Or

(b) Explain the management responsibility for electrical installations.

18. (a) Explain the following rules

(i) RULE NO: -10 – safety reports and safety audit reports.

(ii) RULE NO: - 14 – Preparation of OFF-SITE emergency plan.

Or

(b) Explain the first aid procedure for electrical accident.

---

**C-0720**

**Sub. Code**

**90714**

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

**Non-Semester**

**Environmental Health, Safety and Management**

**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 committee?
2. What are the types of safety training?
3. What are the causes of accident?
4. What is meant by "HAZARD", "RISK"?
5. List out the work activity which needs PTW.
6. What is meant by prevention and protection?
7. Name the gas which causes Bhopal gas tragedy.
8. What is static electricity?
9. What are the types of chemicals?
10. What is meant by Explosions?

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

11. (a) Explain safety induction training program.

Or

- (b) What are the elements of safety programming?

12. (a) What is meant by UA and UC with suitable example?

Or

- (b) How to understand the risk in the work place?

13. (a) Explain fork lift hazards and how to control it.

Or

- (b) How to dispose waste drums and containers?

14. (a) Explain anyone of case study related to static electricity.

Or

- (b) What is the importance to learn the case study?

15. (a) Explain anyone of fire based case study.

Or

- (b) Explain electricity and its risk.

**Part C**

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Explain the safety procedure.

Or

(b) Explain the EPPR.

17. (a) Explain the trips, slip and falls.

Or

(b) Explain the malfunction and enthusiasm related hazard.

18. (a) Explain the electrical hazard related case study.

Or

(b) Explain the safety education and tool box talk.

---

**C-0721**

**Sub. Code**

**90715**

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

**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. What are the causes of accidents?
2. What is meant by housekeeping?
3. What is meant by work place climate?
4. What are the types of lighting?
5. What are the diseases related to the chemicals?
6. Write the routes of entry for chemicals in our body.
7. What is meant by “ERGONOMICS”?
8. Write any two effects of poorly organized work.
9. What is meant by check list?
10. Draw the electrical safety checklist.

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

11. (a) Explain the importance of housekeeping.  
Or  
(b) Explain the first aid for broken limbs.
12. (a) How to control the heat stress?  
Or  
(b) Explain the temporary heaving loss.
13. (a) Explain the labeling of chemicals.  
Or  
(b) Write the importance of ventilation in car plants.
14. (a) Write the importance of work chair setting.  
Or  
(b) Write the importance of hand tool selection.
15. (a) Explain the active safety committee.  
Or  
(b) Explain the importance of personal hygiene.

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

16. (a) Explain the following terms  
(i) Drilling machine safety requirements  
(ii) Regular and periodical inspections.  
Or  
(b) Explain the Methods of Noise Control.

17. (a) Explain acute and chronic condition with suitable example.

Or

- (b) How to improve the conditions of shift work?

18. (a) Explain the canteen services to the worker.

Or

- (b) Explain the facilities for workers welfare during working hours.
-

<b>C-0722</b>
---------------

<b>Sub. Code</b>
------------------

<b>90716</b>
--------------

**P. G. DIPLOMA EXAMINATION, APRIL 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** questions.

1. What is meant by “LAND DEGRADATION”?
2. What is meant by “REVIEW OF THE POLICY”?
3. Expand SPCB.
4. How to categories the area based on the noise standard?
5. What is meant by OHS policy?
6. Write any two management responsibilities for EHS committee forming.
7. What is meant by SOP?
8. Write the types of machine guarding.
9. What is model rule 44?
10. What is meant by first aid?



**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain the objectives of the national environment policy.

Or

- (b) Explain pollution abatement.

12. (a) Explain the water (Prevention and control of Pollution) act 1974.

Or

- (b) Explain the noise standard for ambient air quality.

13. (a) Explain the USA – OSHA 1970 sec 5(a).

Or

- (b) Explain the salient features of EHS committee.

14. (a) Explain the management responsibilities in machine guarding.

Or

- (b) What is permissible weight for adult and adolescent male and female as per factories act 1948.

15. (a) Explain the factories act 1948 section–48 Drinking water.

Or

- (b) Explain the importance of medical examination and care.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the procedure for environmental clearance.

Or

- (b) Explain green category.

17. (a) Explain National and international standards about training.

Or

- (b) What are the types of PPE?

18. (a) Explain the following terms.

(i) Worked at heights.

(ii) Manual handling.

Or

- (b) Explain plant hygiene.
-

**C-0723**

**Sub. Code**

**90717**

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

**Non-Semester**

**Environment, Healths and Safety Management**

**CONSTRUCTION SAFETY MANAGEMENT**

**(2016 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What are all the safety checklist to be followed at construction site?
2. How to protect public in construction site?
3. Give the usage of first aid.
4. Explain the uses of ladders.
5. Define guard rail.
6. Write a short note on mobile & tower scaffolds.
7. Define chemical hazards.
8. Explain the salient features of NBC 2005.
9. Define excavation.
10. Write down safety precautions for fall protection.

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) Briefly explain about cranes and lifting equipment.  
Or  
(b) Write short notes on weekly safety work cycle.
12. (a) Explain about Excavation work.  
Or  
(b) Briefly explain health effects in chemical work.
13. (a) Explain about emergency preparedness.  
Or  
(b) Briefly explain about Bomby lift act.
14. (a) List out the 11 parts of NBC 2005.  
Or  
(b) Detail about the earth quake resistant design structure.
15. (a) Explain about alteration and dismantling of scaffolding.  
Or  
(b) Describe : (i) Mobile scaffold (ii) Tower scaffolds

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail about the BOCW act 1996 and Central rule 1998.  
Or  
(b) Describe (i) Chemical Hazard (ii) Chemical work health effects (iii) Chemical hazard precautions.

17. (a) Briefly explain about BOMBY lift act 1939 & safety features of BOMBY lift act.

Or

- (b) Explain about Indian standard for earth quake resistant structure.

18. (a) Explain in detail about the “Work at height”.

Or

- (b) Explain in detail about the “lifting safety” in Construction plants.
-

<b>C-0724</b>
---------------

<b>Sub. Code</b>
------------------

<b>90718</b>
--------------

**P.G. DIPLOMA EXAMINATION, APRIL 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. Write any two safety Rules?
2. Define Safety?
3. What are the hazards in confined Space?
4. What are the precautions to handle the compressed Gas Cylinders?
5. Define safety in abrasive blasting.
6. What is meant by Hot Work Area?
7. Mention few Hand Tools?
8. What is meant by Electrocutation?
9. What is the use of fire extinguishers?
10. Write about office safety.

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

11. (a) Briefly explain about emergency response procedures.

Or

- (b) Describe the Safety officer responsibilities.

12. (a) Briefly explain about safety in confined space.

Or

- (b) What are the procedures for LOTO Work Safety?

13. (a) Briefly explain about Scaffolding safety.

Or

- (b) Briefly explain about safety while performing abrasive blasting.

14. (a) Briefly explain about Manual material handling.

Or

- (b) What are the precautions to handle the portable hand and power tools?

15. (a) Explain about Environmental care.

Or

- (b) Explain about accident reporting.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) What is PPE? Explain about types of PPE from head to toe with examples.

Or

- (b) Explain in detail about Excavation safety.

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

Or

- (b) Explain in detail about safety during welding, grinding and gas cutting.

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

Or

- (b) Write short notes on :

- (i) First Aid
- (ii) House Keeping
- (iii) Chemical safety.