

C-4295

Sub. Code

90711

P.G. DIPLOMA EXAMINATION
FIRE AND INDUSTRIAL SAFETY
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
FIRE SAFETY – DESIGN, INSTALLATION AND
MAINTENANCE
(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define: Auto ignition temperature.
2. Write the methods of Heat transfer.
3. How to select suitable fire extinguishers?
4. Write about testing of fire extinguishers.
5. Give the merits of UV flame detector.
6. Write the requirements of pirating type detecting system?
7. Define: Fire Hydrant
8. What is fire service inlet?
9. What are the types of fire exists?
10. What is fire load?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Draw and explain: explosion pentagon.

Or

- (b) Write about building design as per national building code.

12. (a) Explain the initial inspection and installation of fire extinguishers.

Or

- (b) How to refill the fire extinguishers? Explain.

13. (a) Explain the functions of optical smoke detector.

Or

- (b) Give the requirements of optical beam detectors.

14. (a) Write about Hydrant installation.

Or

- (b) Explain in detail about fire pumps of pump house.

15. (a) Write about over lapping fire zones.

Or

- (b) Explain the classification of buildings based on occupancy.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the physical and chemical properties of fire.

Or

- (b) Write about fire safety in EDP installations.

17. (a) Explain the demerits of various fire detectors.

Or

- (b) Write about water supplies and pumping arrangements of fire hydrant.

18. (a) Explain the fire exit requirements, capacity of exits and arrangement of exits.

Or

- (b) Explain the working principle of probe type high temperature hi metal heat detector.

C-4296

Sub. Code

90712

**P.G. DIPLOMA EXAMINATION
FIRE AND INDUSTRIAL SAFETY
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non- Semester
ELECTRICAL AND CHEMICAL SAFETY
(2019 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is Current?
2. What is Voltage?
3. Define: Scalds.
4. Write about safety in use of electricity.
5. What is fuse?
6. Define: Overload relays.
7. What is lockout and tag out?
8. What is mean by continuity test?

9. Write about equipment certifying agencies.
10. What do you mean by grouping of gases.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write about Electrical Hazard analysis.

Or

- (b) Give the statutory requirements from Electrical Inspectorate.

12. (a) Write about primary and secondary hazards of Electricity.

Or

- (b) Explain the classes of insulation.

13. (a) Write about protection against over voltage and under voltage.

Or

- (b) Explain: FRLS insulation.

14. (a) Write about permit to work system.

Or

- (b) Explain in detail about preventive maintenance.

15. (a) Give the classification of Hazardous zones.

Or

- (b) Write the uses of barriers and insulators.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the international standards on electrical safety.

Or

- (b) Write about lighting Hazards and lighting arrester.

17. (a) Explain in detail about electrical guarding.

Or

- (b) Give the classification of equipment enclosure for hazardous location.

18. (a) Explain: Indian Electricity rule.

Or

- (b) Explain: CPR.
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C-4297

Sub. Code

90713

**P.G. DIPLOMA EXAMINATION
FIRE AND INDUSTRIAL SAFETY
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
INDUSTRIAL SAFETY AND TOXICOLOGY
(2019 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is industrial Hygiene?
2. Write about cells and muscles of human body.
3. What is vibration?
4. Define : Zoonoses.
5. Give the physical form of chemicals.
6. What is ACGIH values?
7. Define : Ergonomics.
8. What is manual handling?

9. Define : Ambient air quality.
10. Define : HVAC.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain the functions of human digestive system.

Or

- (b) Write about the functions of renal system of human body.

12. (a) Explain : Hepatitis B and C.

Or

- (b) Write about general ventilation of non industrial workplaces.

13. (a) Explain the router of entry.

Or

- (b) Write about metabolism and excretion.

14. (a) Explain : Workplace risk assessment.

Or

- (b) Write about carpal tunnel syndrome.

15. (a) Explain the sampling and analytical methods.

Or

- (b) Write about the uses of neurological tests.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the functions of Nervous system in the human body.

Or

- (b) Explain : Biological exposure indices.

17. (a) Explain : Local exhaust ventilation and Dilution ventilation.

Or

- (b) Explain : Ionizing and non-ionizing radiation.

18. (a) Explain : PPE and its types.

Or

- (b) Write about the functions of circulatory system of human body.

C-4298

Sub. Code

90714

**P.G. DIPLOMA EXAMINATION
FIRE AND INDUSTRIAL SAFETY
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
CONSTRUCTION SAFETY
(2019 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Give the examples of air contaminants.
2. Define : Occupational Health.
3. What are the hazards of excavation?
4. How to handle explosives?
5. Write about MEWP.
6. What is the uses of Back Hoe loader?
7. Write about safe use of ladders.
8. How do plan for erection work?

9. What is strenuous work?
10. Define : Static loads.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain : Lead poisoning.

Or

- (b) Write about impregnation of timer.

12. (a) Explain in detail about transportation of explosives.

Or

- (b) Give the guidelines for loading blasting agent.

13. (a) Write about traffic management during road construction / repair.

Or

- (b) Explain the cranes used demolition.

14. (a) Write about structural steel works.

Or

- (b) Explain : Single pole (or) putlog scaffolds.

15. (a) Give the Hazards of power driven machinery.

Or

- (b) Explain in detail about storage and handling of LPG.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the working positions sitting and standing positions.

Or

- (b) Write about compressed air tools and cartridge operated tools.

17. (a) Explain : Trestle scaffolds.

Or

- (b) Explain : Shot firing and its guidelines, precautions.

18. (a) How to do the tunneling in soft ground? Explain.

Or

- (b) Write about disposal of explosives.

C-4299

Sub. Code

90715

**P.G. DIPLOMA EXAMINATION
FIRE AND INDUSTRIAL SAFETY
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION**

Non-Semester

**HAZARD IDENTIFICATION, RISK ASSESSMENT AND
RISK CONTROL**

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is hazard?
2. Define : Risk register.
3. What is risk estimation?
4. Define : HAZID.
5. Write about “What if analysis”.
6. What is Human reliability analysis?
7. Define : SIL.
8. Write about computer HAZOP.

9. Give examples of flammable gasses.
10. Write about third party certification of instruments.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Draw and explain risk matrix and risk ranking.

Or

- (b) Explain : ALARP.

12. (a) Write about evaluation of plant hazard selecting techniques.

Or

- (b) What are the steps in risk assessment?

13. (a) Explain : Layer of protection analysis.

Or

- (b) Write about fault tree analysis.

14. (a) Explain : FMEA methodology.

Or

- (b) Write about SIL calculation for safety instrument 100p.

15. (a) Explain : Explosion protection.

Or

- (b) Write about electrical area classification.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) SIL determination techniques.

Or

(b) Write about automated FMEA concepts.

17. (a) Explain : SIL Certifications and standards.

Or

(b) Write about HAZOP methodology.

18. (a) Give the comparison of various PHA methods.

Or

(b) Explain in detail about functional safety.

C-4300

Sub. Code

90716

**P.G. DIPLOMA EXAMINATION
FIRE AND INDUSTRIAL SAFETY
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
EHS LEGISLATIONS
(2019 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is Health?
2. Define : Welfare.
3. What is Audit?
4. Give the causes of water pollution.
5. Define : safety data sheets.
6. What is ERP?
7. Give examples of hazardous wastes.
8. What is the disposal methods of explosives?

9. What is ANSI?
10. What is occupational health?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write about provisions relating to hazardous processes as per factories act 1948.

Or

- (b) Write about Tamil Nadu factories rules 1950.

12. (a) Explain : Noise pollution rules, 2000.

Or

- (b) Write about Bio-medical waste management and handling rules 1989.

13. (a) Give the responsibilities of occupier.

Or

- (b) List out the Hazardous and toxic chemicals.

14. (a) Explain : Pesticides Act.

Or

- (b) Write about petroleum rules.

15. (a) Explain : HASAWA act 1974.

Or

- (b) Write about ISO 14000.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain : Electricity act and rules.

Or

(b) Write about Mines act 1952.

17. (a) Explain : Indian Boiler act, 1923.

Or

(b) Write about chapter health and chapter safety of factories act 1948.

18. (a) Explain : Occupational safety and Health act of USA.

Or

(b) Write about OSHAS 18000.

C-4301

Sub. Code

90717

**P.G. DIPLOMA EXAMINATION
FIRE AND INDUSTRIAL SAFETY
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION**

Non-Semester

SAFETY IN LOGISTICS AND WAREHOUSE INDUSTRY

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define : Warehousing cost.
2. What is logistics management?
3. Define : Static electricity.
4. Write the responsibilities of driver.
5. What is conveyor?
6. Write about load center in forklift.
7. What is material handling?
8. Define : Sling.

9. What is fire? Load.
10. What is explosion?

Part B

(5 × 5 = 25)

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

11. (a) Give the significance of warehousing in logistics.

Or

- (b) Explain the functions of warehouses.

12. (a) Write about emergency planning.

Or

- (b) Write about safe driving incentives.

13. (a) Write about forklift training.

Or

- (b) Explain : Conveyor safety.

14. (a) Write about forklift safety precautions.

Or

- (b) Explain the care and maintenance of chain and wire rope slings.

15. (a) Give features of explosion index.

Or

- (b) Write about fire doors and fire walls.

Part C

(3 × 10 = 30)

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

16. (a) Write about maximum and minimum inventory control systems.

Or

- (b) Draw and explain TREM card.

17. (a) Write about logistics system.

Or

- (b) Explain : Forklift inspection and maintenance.

18. (a) Write about carbon dioxide flooding system.

Or

- (b) Explain the different types of portable fire extinguishers.

C-4302

Sub. Code

90718

**P.G. DIPLOMA EXAMINATION
FIRE AND INDUSTRIAL SAFETY
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
SAFETY INSPECTION AND AUDIT
(2019 onwards)**

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Give the importance of workplace inspection.
2. What is Hazard?
3. Give the objectives of safety audit.
4. Write the pre audit activities.
5. What is environmental policy?
6. Give the general principles of environmental audit.
7. What is EIA?
8. What is OH and S policy?
9. Write about IS 14480:1998.
10. Write about closing meeting in audit.

Part B

(5 × 5 = 25)

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

11. (a) Write about hazards in workplace.

Or

- (b) Explain : Safety inspection team.

12. (a) Write about emergency planning.

Or

- (b) How to report audit findings? Explain.

13. (a) Explain the steps in ISO 14001.

Or

- (b) Explain : General principles of LCA.

14. (a) How to develop OH and S Policy? Explain.

Or

- (b) Explain the key changes in ISO 45001.

15. (a) Give features of explosion index.

Or

- (b) Draw the safety audit questionnaire.

Part C

(3 × 10 = 30)

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

16. (a) Explain : High Level Structure (HLS)

Or

- (b) Give the comparison between ISO 45001 and OHSAS 18001.

17. (a) Explain : ISO 14020.

Or

(b) Write about ISO 14024.

18. (a) Explain : EIA in EMS.

Or

(b) Explain the post audit activities.

C-4303

Sub. Code

90711

P.G. DIPLOMA EXAMINATION

**ENVIRONMENT, HEALTH AND SAFETY
MANAGEMENT**

APRIL 2021 EXAMINATION

&

APRIL 2020 ARREAR EXAMINATION

Non-Semester

**PRINCIPLES OF SAFETY MANAGEMENT – GENERAL
SAFETY**

(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write any four ILO conventions on OHS.
2. How to compute frequency rate?
3. Give the safety aspects of piped natural gas supply for domestic use.
4. Write about health concerns of electronic devices.
5. Why workers might not report incidents?
6. What are the permissible limits of high noise levels?
7. How to implement PPE among workers?

8. What is the use of Canister gas mask?
9. Define : INSITU safety training.
10. What are the stages of brain storming?

Part B

(5 × 5 = 25)

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

11. (a) Write about web resources and other references on HSE.

Or

- (b) Explain the elementary first aid procedures.

12. (a) Write about LPG Hazards and Safety practise.

Or

- (b) Give the fuel saving tips for kitchen workers with safety instructions.

13. (a) List any ten notifiable occupational diseases.

Or

- (b) Draw the checklist for controlling occupational noise.

14. (a) Give the classifications of respiratory PPE's.

Or

- (b) Write about colours of canisters and cartridges.

15. (a) Explain : BBS training.

Or

- (b) Explain the role of brain storming in safety training.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the safety responsibilities of supervisors at workplace.

Or

- (b) How to give compensations as per the employee compensations Act?

17. (a) What are the statutory permissions and approvals on the HSE to be taken by industries? Explain.

Or

- (b) Explain : Supplied air type respirators.

18. (a) Write a short note on Indian Standards on Safety and Health.

Or

- (b) Give the broad perspective, programs of occupational safety and health training.

C-4304

Sub. Code

90712

P.G. DIPLOMA EXAMINATION

**ENVIRONMENT, HEALTH AND SAFETY
MANAGEMENT**

APRIL 2021 EXAMINATION

&

APRIL 2020 ARREAR EXAMINATION

Non-Semester

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

(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write about chemistry of fire.
2. What is fire load?
3. Write about safe use of natural gas.
4. Define : Foam Chamber.
5. Give the fire safety measures for chemical laboratories.
6. What is active fire protection?
7. Define : Explosion.

8. What is CNG and LNG?
9. Give the common causes of electrical fires.
10. What is RCCB and MCCB?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain the principles of first aid.

Or

- (b) Give the guidelines for maintenance of automatic fire detection and alarm system.

12. (a) Explain in detail about properties hazards and safety in domestic of LPG.

Or

- (b) Write about floating roof tank protection.

13. (a) How to escape from high rise building in the event of fire? Give the plan.

Or

- (b) Explain the causes of fire, regulations and fire protection measures in small scale industries.

14. (a) Write about fire precautions in motor vehicles.

Or

- (b) Give the causes of fire in transportation of hazardous goods.

15. (a) Write about inverter safety.

Or

(b) Explain in detail about safety in transformers.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail about jet fire, pool, fire and flash fire.

Or

(b) Give the customer safety measurement in petrol pump related to fire.

17. (a) Explain the regulations, design, construction and fire precautions in residential places.

Or

(b) Give the safe practices in welding and gas cutting operations.

18. (a) Write about fire safety measures in luxury bus.

Or

(b) Give the statutory provisions for fire safety under factories Act, petroleum act and explosive act.

C-4305

Sub. Code

90713

P.G. DIPLOMA EXAMINATION
ENVIRONMENT, HEALTH AND SAFETY
MANAGEMENT
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
ELECTRICAL AND CHEMICAL SAFETY
(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write about ELCB against fire.
2. What is electrocution?
3. Define: Electro static charging.
4. Give the effects of static charge.
5. How chemicals enter into body?
6. What is solvents?
7. Write about ILO.

8. Give the management responsibility for electricity installations.
9. What is safety audit report?
10. How to import hazardous chemicals?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write about electrical safety program.
Or
(b) Write about electrical safety for children.
12. (a) Explain: Electro Static occurrence.
Or
(b) Write about Earthing and Bonding.
13. (a) Explain the types and effects of chemicals.
Or
(b) Give the safety precautions for chemical hazards.
14. (a) Write about the salient features of Indian electricity rules.
Or
(b) Write about national Electrical code.
15. (a) What is MSDS? Explain contents.
Or
(b) Explain in detail about onsite emergency plan.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write about electro static hazards and their controls.

Or

- (b) Explain the first aid procedures for chemical accidents.

17. (a) Explain: HIRA in detail.

Or

- (b) Give the IDLH values of common volatile industrial toxic chemicals

18. (a) Write about occupational skin diseases by chemicals.

Or

- (b) Write about occupational Health centre in factories involving hazardous chemicals.

C-4306

Sub. Code

90714

P.G. DIPLOMA EXAMINATION
ENVIRONMENT, HEALTH AND SAFETY
MANAGEMENT
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
INDUSTRIAL SAFETY AND RISK MANAGEMENT
(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is Safety?
2. Define: Safety Management.
3. What is the difference between accident and incident?
4. What is Health? What is Hygiene?
5. What is confined space?
6. What is electrocution?
7. Define: Static Electricity.

8. What is ID Fan?
9. What is explosion?
10. What is the use of studying accident case studies?

Part B (5 × 5 = 25)

Answer **all** questions.

11. (a) Write the elements of Safety programming.

Or

- (b) Explain Safety Committee.

12. (a) Explain: Occupational Health and industrial Hygiene.

Or

- (b) Write about prevention of accidents involving Hazardous substances.

13. (a) Explain: permit to work system.

Or

- (b) Write about Hydrocarbons.

14. (a) Explain the accident case History of Bhopal gas tragedy.

Or

- (b) Explain the accident case history of tractor overturn.

15. (a) Write the accident case study of Electricity.

Or

(b) Write the accident case study of process and chemical handling.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Explain: Emergency preparedness and response.

Or

(b) Write about Hazardous energy control.

17. (a) Explain: Forklift Hazard control.

Or

(b) Explain: Safety professional.

18. (a) Write about safety education and training.

Or

(b) Explain the decontamination plan for waste drums and containers.

C-4307

Sub. Code

90715

**P.G. DIPLOMA EXAMINATION
ENVIRONMENT, HEALTH AND SAFETY
MANAGEMENT
APRIL 2021 EXAMINATION**

&

APRIL 2020 ARREAR EXAMINATION

Non-Semester

**OCCUPATIONAL HEALTH AND SAFETY
MANAGEMENT**

(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What are the three main causes of accidents?
2. Write about boilers and pressure vessels.
3. Define: Workplace climate.
4. What is masking noise?
5. Differentiate: Acute and Chronic conditions.
6. How do you handle chemical wastes?
7. Give the ergonomic requirements of proper foot wear and work chair.

8. Write the characteristics of good work.
9. What is Health? What is Hygiene?
10. What is workplace inspection record?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) How to avoid the eye injuries? Explain.

Or

- (b) Explain in detail about drilling machine safety requirements.

12. (a) Explain the characteristics of decibel scale.

Or

- (b) Write about Hearing protectors.

13. (a) What are the types of occupational skin diseases? Explain.

Or

- (b) Write about storage and transportation of chemicals.

14. (a) How do you improve the work organization and job content? Write the ways.

Or

- (b) Explain the new patterns in working time.

15. (a) Explain: Welfare facilities.

Or

(b) Write about Safety and Hygiene practices.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the first aid procedures for stemming heavy bleeding and injuries to the stomach.

Or

(b) Give the precautionary steps for power driven machines.

17. (a) Write a short notes on airborne particles, dust, fumes, smoke and gases.

Or

(b) Explain the problems of shift work and what are the practical measures needed to improve the conditions of shift work.

18. (a) Explain in detail about Safety committee.

Or

(b) Explain: What to do when there is an accident?

C-4308

Sub. Code

90716

P.G. DIPLOMA EXAMINATION

**ENVIRONMENT, HEALTH AND SAFETY
MANAGEMENT**

APRIL 2021 EXAMINATION

&

APRIL 2020 ARREAR EXAMINATION

Non-Semester

ENVIRONMENTAL SAFETY AND EHS LAWS

(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Give the key environmental challenges.
2. Write the objectives of national environment policy.
3. What is bio medical waste?
4. Define: Ambient air quality.
5. Why EHS Committee needed?
6. Why EHS Committee fail sometimes? Give reasons.
7. Write about Safety precautions for compressed gas cylinders.

8. Give the management responsibility for electricity installations.
9. Differentiate: Plant Hygiene and Industrial Hygiene?
10. What is the purpose of first aid?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write about the Validity of Environmental Clearance.

Or

- (b) Explain in detail about pollution abatement.

12. (a) Write about general standards for discharge of pollutions.

Or

- (b) Explain: Lighting.

13. (a) Explain: Permit to work.

Or

- (b) Explain: Lighting.

14. (a) Write about guarding of machineries.

Or

- (b) Explain: Manual Handling.

15. (a) Write about Industrial hygiene and workplace monitoring.

Or

- (b) Explain: Radiation Hazards.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the description of international standards and laws for OHS Policy.

Or

- (b) Explain in detail about Hoists and Lifts.

17. (a) Explain in detail about Hoists and Lifts.

Or

- (b) Write about accident investigation and reporting.

18. (a) Explain in detail about electrical installation.

Or

- (b) Explain in detail about environmental categorization.
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C-4309

Sub. Code

90717

**P.G. DIPLOMA EXAMINATION
ENVIRONMENT, HEALTH AND SAFETY
MANAGEMENT**

APRIL 2021 EXAMINATION

&

APRIL 2020 ARREAR EXAMINATION

Non-Semester

CONSTRUCTION SAFETY MANAGEMENT

(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is Electricity?
2. Define: Welfare.
3. How to inspect the excavations?
4. Write about chemical hazards.
5. Give the common causes for fire at site.
6. Give the legal provisions for tunneling work.
7. Write the salient features of NBC 2005.
8. What is reinforced concrete?
9. Write about underhand scaffolds.
10. Give the uses of step ladders.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Draw the Safety check list for construction site.

Or

- (b) Write about Safety work cycle at construction sites.

12. (a) How to prevent people and vehicle falling into excavations?

Or

- (b) Explain in detail about fragile roof.

13. (a) Write about ladder Safety.

Or

- (b) Write about welding Safety.

14. (a) Explain the Indian standard for earthquake resistant structure.

Or

- (b) Write about duct like detailing reinforced concrete structures subjected to seismic forces.

15. (a) Write about maintenance and storage of scaffolding.

Or

- (b) Explain in detail about work over water.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write about IS – 13824 : 1993.

Or

(b) Explain in detail about IS – 1893 : 1984.

17. (a) Explain in detail about alteration and dismantling of scaffolds.

Or

(b) Write about working on fragile materials and working near fragile materials.

18. (a) Write about safety process discussions.

Or

(b) Explain the general tubling, filling specifications, platform of scaffolds.
