

C-4527

Sub. Code

21511

CERTIFICATE COURSE EXAMINATION
FIRE AND INDUSTRIAL SAFETY MANAGEMENT
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. Write briefly on BLEVE.
2. What are the different methods used for fire detection?
3. Differentiate hazard and risk.
4. List out types of fire extinguisher and its application.
5. Write the advantages and disadvantages of IR detector.
6. Differentiate wet and dry riser.
7. Write briefly on smoke detectors.

8. Define auto ignition temperature.
9. Write the full form of DCP, AFFF, fire extinguisher.
10. Who can perform fire safety inspection of building?

Part B (5 × 5 = 25)

Answer **all** questions.

11. (a) List out the fire detection methods.

Or

- (b) What are the modes of heat transfer with examples?

12. (a) Explain how you will decide the location, size and type of fire extinguisher for gas godowns?

Or

- (b) What are the inspection, maintenance and refilling requirements of a 25 kg DCP fire extinguisher?

13. (a) List any three of type fire detectors and their operating principles.

Or

- (b) Explain fire tetrahedron.

14. (a) How you will decide location of fire hydrants for 15 floor resident building with basement parking?

Or

- (b) Prepare a list of points to be included for inspection checklist of fire system of 15 floor resident building.

15. (a) Explain about fire zone and location of fire detection for an electrically operated industry power press.

Or

- (b) Draw a simple line diagram of a fire safety layout and explain.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) List out the various general causes of fire, with fire detection methods.

Or

- (b) What are the factors to be considered in design of fire system for shopping malls?

17. (a) Briefly explain combustible material, flammable material, fire point, flash point, freeze point.

Or

- (b) Explain installation, inspection and maintenance requirements of UV detectors.

18. (a) Explain about fire zone and water supply requirements for a small scale automobile industry.

Or

- (b) List out the merits and demerits of static water tank and motorized water tanks for a resident building.

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CERTIFICATE COURSE EXAMINATION
FIRE AND INDUSTRIAL SAFETY MANAGEMENT
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. Write full form of CPR and who can give.
2. What is electric Arc and Flash?
3. What is ELCB and RCCB?
4. Write about voltage classification.
5. Difference between fuse and circuit breaker.
6. Which body system will be affected in electrical shock?
7. Define ohms law.

8. Which metal rod is best for earthing?
9. Define hazardous zone.
10. Write few examples of flammable gases.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Briefly explain permit to work system.

Or

- (b) Briefly explain LOTO and its importance.

12. (a) What are the degrees of burn and explain?

Or

- (b) Write briefly about types of electrical faults?

13. (a) What is insulation and classes of insulation?

Or

- (b) Explain how electricity becomes a cause of fire.

14. (a) Write short notes on FAIL SAFE concept.

Or

- (b) Explain the purpose of dead man switch in hand held power tools.

15. (a) What are the classification of hazardous zone?

Or

- (b) Write briefly on intrinsically safe devices.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write the effects of electric shock on body parts.

Or

(b) Write briefly on Indian and international electrical safety standard.

17. (a) What are the primary and secondary hazards while working on a high voltage transformer?

Or

(b) Write in detail on the requirements of earth pit as per Indian standard for a 5 KV load.

18. (a) Write the

(i) merits and demerits between GFCI and ELCB.

(5)

(ii) PPE requirements for working in substation?

(5)

Or

(b) What are all the types of cable termination and cable joints?

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**CERTIFICATE COURSE EXAMINATION
FIRE AND INDUSTRIAL SAFETY MANAGEMENT
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. Define industrial hygiene.
2. What are the different systems of human body?
3. Define noise.
4. Define PPE.
5. Name the routes of entry of chemicals into human body.
6. What is meant by HAZCHEM?
7. Define MSD.

8. Define WRULD.
9. What is meant by indoor air quality?
10. What is meant by BEI?

Part B (5 × 5 = 25)

Answer **all** questions.

11. (a) Briefly explain about nervous system of human body.

Or

- (b) Briefly explain about digestive system of human body.

12. (a) Explain in short about the effects of noise to human.

Or

- (b) Explain in short about sources and effects of anthrax and leptospirosis.

13. (a) Briefly explain about stages of toxicological evaluation.

Or

- (b) Explain in brief about TLV, STEL, C, LC50 and LD50.

14. (a) What is meant by workplace risk assessment? Explain briefly.

Or

- (b) Discuss in short about the effects of poor/improper design of workplace to human body.

15. (a) Briefly explain about audiometry and lung function test.

Or

- (b) Give any five suggestions to maintain a good indoor quality.

Part C (3 × 10 = 30)

Essay type answer either or type questions.

16. (a) Explain in detail about industrial hygiene and its importance in workplace.

Or

- (b) Write in detail about hierarchy of accident control.

17. (a) Write in detail about the effects of exposure to ionizing and non-ionizing radiation on human body.

Or

- (b) What are the different types of PPE? Explain each.

18. (a) Explain about sampling and analytical methods.

Or

- (b) Explain about effects of improper manual material handling. Also write the control measures to improve the same.

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CERTIFICATE COURSE EXAMINATION
FIRE AND INDUSTRIAL SAFETY MANAGEMENT
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. What is PPE?
2. Define first aid.
3. Define shoring.
4. What are the types of cranes?
5. What are the types of forklifts?
6. Define confined space.
7. Define putlog scaffold.

8. What are the effects of cement on human body?
9. Define flash back arrestor.
10. Name any two power tools and two hands tools.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain about fall protection system and its components.

Or

- (b) Briefly discuss about occupational health and its requirements in construction.

12. (a) Explain about the precautions to be taken while handling explosives.

Or

- (b) Explain about hazards in tunneling.

13. (a) What is MEWP? Discuss about the precautions to be followed while using MEWP.

Or

- (b) What is a forklift? Discuss about the maintenance requirements with respect to safety.

14. (a) What are the hazards and safety measures to be followed during concreting?

Or

- (b) Write about hazards and safe transport of sand, gravel and crusher stones.

15. (a) Write about safety in using hand tools.

Or

(b) Write about safety in using power tools.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail about head protection, hearing protection, foot protection and fall protection.

Or

(b) Write in detail about different types of soils, testing procedures and shoring requirements.

17. (a) Explain in detail about hazards and preventive measures in excavation.

Or

(b) Explain in detail about manual material handling.

18. (a) Write in detail about electric shock, its effect on human body and CPR.

Or

(b) Write about safe handling and storage of LPG.

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CERTIFICATE COURSE EXAMINATION

FIRE AND INDUSTRIAL SAFETY MANAGEMENT

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. Define Hazard.
2. Define Risk.
3. What is meant by hazard identification?
4. Define risk assessment.
5. What is PHA?
6. What is LOPA?
7. Define HAZOP.

8. What is FMEA?
9. What is meant by TPI?
10. Define flammables.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain about PHA.

Or

- (b) Explain about risk matrix and risk rating.

12. (a) Explain about HAZID.

Or

- (b) Explain about risk assessment and risk estimation.

13. (a) Explain about SIL.

Or

- (b) Explain about FMECA.

14. (a) Explain about what if analysis.

Or

- (b) Explain about human reliability analysis.

15. (a) Explain about safety life cycle.

Or

- (b) Explain about flammable gas detection and protection.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Prepare a HIRA for working with cranes.

Or

- (b) Prepare a HIRA for working in confined spaces.

17. (a) Explain in detail about hierarchy of accident controls.

Or

- (b) Explain in detail about checklist analysis. Prepare a checklist for excavation.

18. (a) Explain in detail about HAZOP and write the different keywords.

Or

- (b) Explain in detail about electrical area classification.

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CERTIFICATE COURSE EXAMINATION
FIRE AND INDUSTRIAL SAFETY MANAGEMENT
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 a factory?
2. Who is a safety officer?
3. Define biowaste.
4. What is air pollution?
5. Who is an occupier?
6. What is meant by SDS?
7. What is SMPV?

8. What is BOCW Act?
9. Write any two international EHS acts and two Indian acts.
10. What is OHSAS?

Part B (5 × 5 = 25)

Answer **all** questions.

11. (a) What are the provisions in factories act relating to hazardous processes?

Or

- (b) What are the powers of inspection staff?

12. (a) Write about biomedical waste management rules 1989.

Or

- (b) Write about air act 1981.

13. (a) What are the responsibilities of occupier?

Or

- (b) What are the duties of safety officer?

14. (a) Write about gas cylinder rules.

Or

- (b) Write about pesticides act.

15. (a) Discuss about William steiger act 1970.

Or

(b) Write about ANSI.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail about safety and health chapters of factories act 1948.

Or

(b) Explain in detail about environmental pollution and its effects.

17. (a) Write in detail about emergency response plan.

Or

(b) Write in detail about BOCW rules.

18. (a) Explain about HASAWA 1874.

Or

(b) Explain about ISO 14001 standard.

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CERTIFICATE COURSE EXAMINATION

FIRE AND INDUSTRIAL SAFETY MANAGEMENT

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 logistics.
2. What is meant by WMS?
3. Define TREM card.
4. Define emergency planning.
5. What are the types of forklift?
6. Define SWL.
7. What is a jib crane?

8. Write any two defects of chain slings.
9. Define explosion index.
10. What are the types of fire hydrant pumps?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain about inventory control system.

Or

- (b) Explain about different types of warehouses.

12. (a) Explain in short about defensive driving.

Or

- (b) How to ensure minimum fuel conservation?
Explain.

13. (a) What are the precautions to be taken during manual handling?

Or

- (b) Write any five maintenance requirements for a forklift.

14. (a) Explain about safety in operating EOT cranes.

Or

- (b) Explain about safety in handling compressed gas cylinders.

15. (a) Explain about various types of detectors.

Or

(b) Explain about foam pourer system.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail about safety in warehouse.

Or

(b) Discuss in detail about accident investigation and reporting.

17. (a) Write in detail about forklift training requirements.

Or

(b) How to handle the chain pulley block safely? Explain.

18. (a) What are the different types of extinguishers? Write in detail about their maintenance.

Or

(b) Write in detail about fire hydrant system.

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CERTIFICATE COURSE EXAMINATION
FIRE AND INDUSTRIAL SAFETY MANAGEMENT
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. Define audit.
2. Write any four hazards in workplace.
3. What is meant by corrective action?
4. What is meant by safety inspection?
5. What is meant by PDCA cycle?
6. What is continual improvement?
7. What is OHSAS?
8. Define objectives and targets.

9. What is the purpose of closing meeting?
10. Define occupational health.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Briefly explain the procedure to conduct workplace inspection.

Or

- (b) Prepare a checklist to conduct ladder safety inspection.

12. (a) Explain about different types of safety audit.

Or

- (b) Explain the ropes and responsibilities of safety auditor.

13. (a) Explain about EIA.

Or

- (b) What are the benefits of audit?

14. (a) Explain about OH&S policy.

Or

- (b) What is meant by HLS? Explain.

15. (a) Write any ten documents that need to be verified during a safety audit.

Or

- (b) Explain about the elements of OH&S system.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail about preparing a safety audit report.

Or

- (b) Explain in detail about hazards in a construction site.

17. (a) What is meant by EMS? Explain in detail.

Or

- (b) What are the documentation requirements based on EMS?

18. (a) Explain about code of practice on occupational health and safety.

Or

- (b) Explain about ISO 45001 in detail.
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CERTIFICATE COURSE EXAMINATION

FIRE AND INDUSTRIAL SAFETY MANAGEMENT

APRIL 2021 EXAMINATION

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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 the Roles and Responsibilities of safety officer.
2. Define severity rate.
3. Write some safety measures while using domestic electric appliances.
4. Define home safety.
5. Define noise pollution and what its standards dB level in workplace.
6. What is PPE's and Why should use it?
7. Difference between Ear Muff and Ear Plug.

8. Define classification of Respiratory Type Protection Equipment.
9. Types of Training and its Purpose.
10. What is Man Made Hazard?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write the First Aid Procedures for
 - (i) Shock
 - (ii) Fainting
 - (iii) Sprains.

Or

- (b) Write a short notes on work place safety.
12. (a) Write some Electrical Hazards.

Or

- (b) Give some safety suggestion for kitchen workers.
13. (a) Write the short notes on MSDS and Draw the diamond diagram.

Or

- (b) Make a checklist for controlling the Occupational Hazards.
14. (a) Describe about PPE For Eye and Face Protection.

Or

- (b) Explain about Labelling and its importance.

15. (a) What is Behaviour based safety and Explain briefly.

Or

(b) Write some important observation points at Brainstorming session.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Explain types of Hazards in detail.

Or

(b) Explain about LPG and its storage, transportation, handling safety.

17. (a) Discuss about occupational diseases and its recent case study.

Or

(b) Write Indian Standards on Safety and Health in detail.

18. (a) Give some suggestion to develop safety culture in work place.

Or

(b) How you will educate an unskilled labour as per safety aspects?

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CERTIFICATE COURSE EXAMINATION

FIRE AND INDUSTRIAL 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. What is standard height of high rise building?
2. What is TREMCARD?
3. What is NBC?
4. What is flash point and fire point?
5. What is HAZCHEM Code?
6. What are common causes for electrical fire?
7. Types of storage tanks.

8. What is Fire Wall?
9. Define sub station.
10. Define major causes of computer fire.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Difference between Jockey Pump and Main Pump.

Or

- (b) Explain about Fire Protection System in Design Criteria.

12. (a) Describe about safety precautions of electrical domestic appliances.

Or

- (b) List out some safety points for petrol pump station.

13. (a) Explain briefly about electrical winding and insulation.

Or

- (b) What is fire load and find out some value by using formulas?

14. (a) What are the statutory requirements causes in motors?

Or

- (b) What are the safety aspects and followed in chemical laboratories?

15. (a) Explain the House Keeping standards in Godowns and Chemical Warehouses.

Or

- (b) Difference between LNG and CNG explain it briefly.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Detail in flammable liquids and gases.

Or

- (b) Write the guide lines for maintenance of automatic fire detection and alarm system.

17. (a) Discuss in detail about criteria for fire insurance.

Or

- (b) What is Foam and Describe about foam Monitoring System?

18. (a) Main causes of fire and explosion in inverter.

Or

- (b) Write any three important points are in fire safety in Electrical systems.

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CERTIFICATE COURSE EXAMINATION
FIRE AND INDUSTRIAL 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. Define IDLH value.
2. List five hazardous chemicals.
3. Define capacitor.
4. Define fuse.
5. What are the types of chemical?
6. Difference between acute and chronic effects.
7. Define earth pit.

8. Write some points of Do's and Don'ts electrical equipment's.
9. Types Fuses.
10. What is RCB/RCCB?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write the short notes on Air Contaminants.

Or

- (b) Explain about Ventricular Fibrillation.

12. (a) What are the Hazardous Involved in the acid and bases?

Or

- (b) Discuss the effect of static charge.

13. (a) Methods of chemical entering into The Body.

Or

- (b) Write short notes on Earthing and Bonding.

14. (a) Write about Hazardous Chemical and their Risks.

Or

- (b) Write the Principles of HIRA.

15. (a) Write the statutory information of electrical installations.

Or

- (b) Discuss some important points about Petroleum Act 1934.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss the recent Electrical Incident in India (case study).

Or

- (b) Detailed about Electrical Shock and First Aid Procedures.

17. (a) Hazardous of Static Electricity and Methods of Controlling it.

Or

- (b) Write the Principles of Storage, Handling and Transportation of Hazardous Chemicals.

18. (a) Explain Briefly about Indian Electricity Rules 1956.

Or

- (b) Detail about Treatment for Electrical Shock.

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CERTIFICATE COURSE EXAMINATION
FIRE AND INDUSTRIAL 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. Define safety management.
2. Define explosion.
3. What are the roles of a safety professional?
4. Define air contaminants.
5. Write short notes on forklift hazards.
6. Define emergency preparedness.
7. Define brainstorming.

8. Define frequency rate.
9. What are the safety performance?
10. Define shredding.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain techniques of safety management.

Or

- (b) Write short notes on safety committee.

12. (a) Write short notes on computing injury rate.

Or

- (b) Explain competency mapping.

13. (a) Write short notes on job safety analysis.

Or

- (b) What are the common causes of an accident?

14. (a) Write short notes on storage of hazardous substance.

Or

- (b) Write short notes on material handling.

15. (a) Write short notes on static electricity.

Or

(b) Write short notes slip, trip and fall.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain Permit to work system.

Or

(b) Explain the forklift hazards and control.

17. (a) Explain the hazards in confined space and its control measures.

Or

(b) Explain Bhopal Gas tragedy in detail.

18. (a) Explain Brainstorming in detail.

Or

(b) Explain Emergency Response plan.

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CERTIFICATE COURSE EXAMINATION
FIRE AND INDUSTRIAL 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 Excavation?
2. Define : Hoist.
3. How to inspect the Excavations?
4. Write about PPE.
5. Write about Hot works.
6. What is Elevator?
7. Write about IS-13827 : 1993.

8. What is NBC?
9. Write about storage of scaffolding.
10. What is Forklift?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write about safety promotional activities.

Or

- (b) Explain : worksite cleanup.

12. (a) Write about undermining nearby structures.

Or

- (b) Explain : first aid.

13. (a) Explain : Site House Keeping.

Or

- (b) Write about uses of all ladders.

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

Or

- (b) Explain : IS 1893-part I : 2002.

15. (a) Write about scaffolding inspections.

Or

(b) Explain : Tube and coupler scaffolds.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain : Alteration and dismantling of scaffoldings.

Or

(b) Write about IS 1893-part 4 : 2005.

17. (a) Explain the safety work cycles at construction sites.

Or

(b) Write about ladder safety.

18. (a) Explain : Site manager patrol.

Or

(b) Write about cranes and lifting appliances.

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CERTIFICATE COURSE EXAMINATION
FIRE AND INDUSTRIAL SAFETY MANAGEMENT
APRIL 2021 EXAMINATION
&
APRIL 2020 ARREAR EXAMINATION
Non-Semester
SAFETY AT OIL, GAS AND NUCLEAR PROJECTS
(2016 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is safety?
2. Write about safety induction training.
3. What is confined space?
4. Define : respiration.
5. What are the hazards of hot work?
6. Define : Scaffolding.
7. What is material handling?

8. Define : Electricity.
9. What is accident?
10. What is fire extinguisher?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write about personal pre check.

Or

- (b) Explain : Emergency response.

12. (a) Write about signals, displays, safety signs.

Or

- (b) Explain : Compressed gas cylinders.

13. (a) Explain : safety in crane operations.

Or

- (b) Write about scaffolding safety.

14. (a) Write about conveyors safety.

Or

- (b) Explain : Portable hand and power tools.

15. (a) Write about Accidents and Incidents reporting.

Or

- (b) Explain : Environmental care.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write about fire prevention and use of fire extinguishers.

Or

- (b) Explain : Elementary first aid.

17. (a) Explain : Excavation hazard and safety.

Or

- (b) Write about PPE.

18. (a) Explain : Lockout and Tag out work for safety.

Or

- (b) Write about abrasive blasting and painting.
