

CP-8617

Sub. Code

12

**B.Sc. (Fire and Industrial Safety Management) DEGREE
EXAMINATION, APRIL 2018**

First Year

COMMUNICATIVE ENGLISH LANGUAGE

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Who is compared to the man who stumbles through his lessons?
2. What is it that Indira Gandhi does not demand?
3. To what is the pen compared in A.G. Gardiner's *On Habits*?
4. What question did the teacher ask in *Crime and Punishment* by R.K. Narayan?
5. What did the elders not like their children to read in Margaret Atwood's *Survival*?
6. What are the rivers flowing through Allahabad? How does Sarojini Naidu describe them?

Fill in the blanks with appropriate form of verbs.

7. I ————— him tomorrow. (meet)
8. He ————— to cinema yesterday. (go)

Change into passive voice.

9. I post a letter.

Use appropriate articles.

10. ————— deer is ————— animal.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write a short essay on the objective in education emphasized by Livingstone.

Or

- (b) Write a short note on Indira Gandhi's views on courage.

12. (a) Why was Balfour agonized when he had to make a speech?

Or

- (b) Bring out the significance of R.K. Narayan's crime and punishment in modern society.

13. (a) What books did Margaret Atwood enjoy reading?

Or

- (b) Highlight the views expressed by Sarojini Naidu in the vision of patriotism.

14. (a) Write on usage of simple present tense.

Or

- (b) Write on usage of simple future tense.

15. (a) What are the prepositions used to mention the time and place? Explain.

Or

- (b) Write about Definite articles.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) What are Livingstone's views on education?

Or

- (b) Write an essay on the books that Margaret Atwood enjoyed reading when she was a little girl. What reasons does she give for her preferences?

17. (a) Substantiate Indira Gandhi's view that the youth are the backbone of India.

Or

- (b) What are Gardiner's views on desirability or otherwise of forming habits?

18. (a) What is a modal verb? List out each with examples.

Or

- (b) Explain Sentence patterns with examples.
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CP-8618

Sub. Code

13

B.Sc. DEGREE EXAMINATION, APRIL 2018

First Year

Fire and Industrial safety

FIRE SAFETY – PREVENTION AND CONTROL

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define auto ignition.
2. What are the fire resistant materials?
3. What are the types of detectors?
4. Write short notes on flash fire.
5. Discuss DCP, AFFF.
6. Define natural gas and its properties.
7. How will you classify the petroleum products based on the flash point?
8. What are the legislation and regulation for public places?
9. What are the fire prevention procedures in motor vehicle
10. Write short notes common causes of electrical fire.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write short notes on BLEVE.

Or

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

12. (a) Explain about emergency procedures in case of gas leakage.

Or

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

13. (a) Explain fire precautionary measures in residential place.

Or

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

14. (a) What are the common causes of Fire in motor vehicle?

Or

- (b) Explain about the heat radiation hazards level.

15. (a) Describe electrical safety with the voltage operated ELCB.

Or

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

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Describe about maintenance of fire extinguishers.

Or

- (b) Explain emergency action plan.

17. (a) Explain the following on petroleum plant.

- (i) Fire protection system
- (ii) Hydrant systems
- (iii) Water monitors.

Or

- (b) Describe about escaping from a high rise building in case of fire.

18. (a) Explain hazards and precautionary measures use of CNG/LPG in vehicles.

Or

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

CP-8619

Sub. Code

14

B.Sc. DEGREE EXAMINATION, APRIL 2018

First Year

Fire and Industrial Safety

PERSONAL PROTECTIVE EQUIPMENTS

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What are the hazards associated with leg injury?
2. Safety measures for safety shoe?
3. What are the causes of job related skin diseases and injury?
4. List out the physical hazards in Skin injury.
5. List out the protective measures in skin protection.
6. Where protective / barriers creams are used?
7. Which Colour code is use for
 - (a) Organic vapour
 - (b) Acid gases
 - (c) Ammonia.

8. List out the types of respirator type PPE.
9. What are SCBA / BA / SCUBA /SAR / EEED?
10. Define PPE and its uses.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain – Mechanical / thermal / Chemical hazards.
Or
(b) List out and explain emergency measures on eye protection – checklist.
12. (a) Brief three basic kinds of hazards in workplace associated with head injury.
Or
(b) How to prevent Hand injury – explain?
13. (a) Classification of respiratory PPE.
Or
(b) Explain Air purifying respirators.
Mechanical filter / canister gas mask / chemical cartridge.
14. (a) Point out filter lens shades for various welding and cutting.
Or
(b) Point out non respiratory type PPE.
15. (a) What are the points to remember while selecting respiratory type PPE?
Or
(b) List out the cartridges and their Colour codes.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) List out the different types of head protections and characteristics and protection against.

Or

- (b) Explain temporary / permanent Hearing loss.

17. (a) Explain maintenance and care of respiratory type PPE.

Or

- (b) Explain the types and characteristics of hand protectors.

18. (a) Explain the points for successful implementation of an effective PPE Programme.

Or

- (b) Explain Injuries associated with hand in workplace.

CP-8620

Sub. Code

15

B.Sc. DEGREE EXAMINATION, APRIL 2018

First Year

Fire and Industrial Safety

LIFTING EQUIPMENTS AND TRANSPORT SAFETY

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is safe lifting?
2. How to drive a forklift?
3. What is loose contaminant?
4. What is nicks and grazes?
5. Define choker stress formula.
6. What are the two types of web slings?
7. What do you mean by reaction distance and breaking distance?
8. Mention the four R's formula for preventing head-on-collision.
9. Define SMPV and CMVR.
10. Mention any 4 fuel saving tips for two/three wheelers.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Briefly explain about moving loads.

Or

- (b) What are the do's and don'ts with electrical forklifts?

12. (a) Write a short note on prevention of contamination.

Or

- (b) Explain about procuring new lifting tackles (slings) and maintaining them in the shop.

13. (a) What are the duties of an appointed person in a lifting operation?

Or

- (b) Explain the types of basket hitch.

14. (a) Write a short note on the basic elements of defensive driving techniques.

Or

- (b) Explain the tips for bicycle riders.

15. (a) Write a short note on Rule 129 and Rule 29A.

Or

- (b) Explain the various maintenance tips for vehicles.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the safety precautions in storing compressed gas cylinders.

Or

- (b) Explain the forklift safety.

17. (a) Explain the safety precautions in storing hydrocarbons (class A,B,C).

Or

- (b) What are the do's and don'ts to be remembered while lifting?

18. (a) Explain the basic steps to introduce safety in goods transport operations and management.

Or

- (b) Explain in detail about the procedures for safe loading and unloading of road tankers carrying petroleum liquid.

CP-8621

Sub. Code

16

B.Sc. DEGREE EXAMINATION, APRIL 2018

First Year

Fire and Industrial Safety

SAFETY ON ELECTRICAL AND CHEMICAL HAZARD

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write the first aid procedures for electrical injuries.
2. What is ELCB?
3. What is static electricity?
4. Define conductivity.
5. List out the air contaminants.
6. What are the classifications of flammable liquids?
7. What is the Rule 48 & 49 represents in the Indian electricity rule 1956?
8. What do you mean by conductor?
9. What are the general duties of the authorities?
10. What is a capacitor?

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

11. (a) What are the recommendations for better use of light energy?

Or

- (b) Write the electrical shock and first aid.

12. (a) Explain earthing and bonding.

Or

- (b) What are the methods for control of static electricity?

13. (a) What are the precautionary measures for chemical hazards?

Or

- (b) Explain acute and chronic effect.

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

Or

- (b) Write a short note on the model rules made there under the Factories Act, 1948.

15. (a) Explain the chemical safety reports.

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) How will you save the electricity in the following systems:
- (i) Cooling towers
 - (ii) Heat treatment furnace
 - (iii) Illumination system.
17. (a) Explain the static electricity hazards associated with static electricity and also write the control measure for it.

Or

- (b) Describe the Indian Electricity Act, 1910.
18. (a) Explain the classification of flammable liquids and Write the control measures for it.

Or

- (b) Explain the import of Hazardous Chemicals.

CP-8622

Sub. Code

22

B.Sc. DEGREE EXAMINATION, APRIL 2018

Second Year

Fire and Industrial Safety

COMMUNICATIVE ENGLISH LANGUAGE ADVANCE

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define communication.
2. What is telephone etiquette?
3. Explain phrasal verbs with examples.
4. What are homonyms? Give examples.
5. Give examples for misplaced words.
6. List out any four of the prepositions often confused.
7. What is primary stress?
8. Why is posture very important in an interview?
9. How does scanning help in effective reading?
10. Give any two types of greeting.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) What are the ways of challenging the barriers of communication?

Or

- (b) Write briefly on effective time management.

12. (a) Write a paragraph on infinitives and gerunds.

Or

- (b) Explain the term “homophones” and give examples.

13. (a) Write a short note on the unnecessary words in English usage such as unnecessary prepositions and unnecessary articles.

Or

- (b) Give an account of the problems arising due to the confusion of parts of speech.

14. (a) Write about secondary stress.

Or

- (b) How does gesture help in effective communication?

15. (a) Explain skimming and how does it help in effective reading?

Or

- (b) How is an e-mail drafted?

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

16. (a) Write in detail on the various types of communication.

Or

- (b) Write an essay on the transformation of sentences.
17. (a) Explain with examples the most common mistakes in English usage.

Or

- (b) Give an account of English sounds, stress and intonation.
18. (a) What are the important aspects of Non-verbal communication?

Or

- (b) What are the techniques that help to read effectively?
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B.Sc. DEGREE EXAMINATION, APRIL 2018.

Second Year

Fire and Industrial Safety

GENERAL SAFETY MANAGEMENT (PRINCIPLES AND POLICIES)

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What are the responsibilities of supervisor?
2. What do you mean by safety incident?
3. Define home safety.
4. What do you mean by domestic electrical appliances?
5. Mention the permissible noise levels of industry area.
6. Define statutory obligation.
7. What are the PPE's used for facial & ear protection?
8. What are the types in air purifying type respirators?
9. Define brainstorming.
10. Define BBS.

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

11. (a) Explain the following :

(i) Frequency Rate

(ii) Severity Rate

(iii) Incidence Rate

Or

(b) Explain the housekeeping and safety cleaning procedures at worksite.

12. (a) Explain the hazards and safety measures while handling LPG.

Or

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

13. (a) Write a short note on compensations as per the employee compensation act, 1923.

Or

(b) Write a short note on statutory permissions and approvals on HSE to be taken by the industries.

14. (a) Write a short notes on classification of respiratory PPE's.

Or

(b) Write a short note on the restrictions on the use of respiratory PPE's.

15. (a) Write a short note on concepts of training and education today on safety.

Or

- (b) Write short notes on behavioral based safety training.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain about the ILO conventions and recommendations on OHS.

Or

- (b) Explain about the safety instructions for kids, elders & physically challenged persons.

17. (a) Explain the checklist for controlling occupational noise.

Or

- (b) Explain about the safety signage's, signals & displays, notices & labels required to be provided under SHE regulations.

18. (a) Explain about the classifications of air purifying respirators.

Or

- (b) Explain in detail about Occupational health & safety training.

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B.Sc. DEGREE EXAMINATION, APRIL 2018

Second Year

Fire and Industrial Safety

**HEALTH ASPECTS, FOOD HYGIENE AND SAFETY
(HACCP)**

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What are the early symptoms of cancer?
2. Define healthy diet.
3. What are the factors affecting the growth of microbes?
4. Define food additives.
5. Write about food storage.
6. Mention few food borne diseases.
7. What is special food operations?
8. Define listeriosis.
9. What are the types of cleaning equipments?
10. Define E. waste.

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

11. (a) Describe about water and sanitation related diseases.

Or

- (b) Describe about heat stress effects and control measures.

12. (a) Describe about food contamination.

Or

- (b) Describe about food allergies.

13. (a) Describe about food protection in cafeterias and fast food counters.

Or

- (b) Describe about outdoor catering and transport catering.

14. (a) Describe about environmental pollution.

Or

- (b) Describe about lighting and ventilation requirements.

15. (a) Describe about sanitation risk assessment.

Or

- (b) Describe about genetically modified food.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail about the following:
- (i) Food borne diseases.
 - (ii) Mode of transmission of diseases.
 - (iii) Food allergies.
 - (iv) Control of food borne diseases.

Or

- (b) Write in detail about sanitary procedures while preparing, holding, serving and displaying food.
17. (a) Write in detail about:
- (i) Water quality standards.
 - (ii) Sewage and contamination of water.

Or

- (b) Write in detail about solid waste, liquid waste and gaseous waste.
18. (a) Write in detail about the atomic energy (control of irradiation of food) rules 1996.

Or

- (b) Write in detail about ISO 14000 environmental management systems.
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CP-8625

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B.Sc. DEGREE EXAMINATION, APRIL 2018

Second Year

Fire and Industrial Safety

**OCCUPATIONAL HEALTH AND SAFETY
MANAGEMENT**

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What are the causes of accident?
2. Define first aid.
3. Define noise.
4. Define heat stress.
5. Define PPE.
6. Define acute and chronic condition.
7. Define ergonomics.
8. Name any four hand tools.
9. Define WHO.
10. Define workplace inspection.

Part B $(5 \times 5 = 25)$ Answer **all** questions.

11. (a) What is the first aid for respiratory failure? Explain.

Or

- (b) What are the safety requirements for machinery?

12. (a) Discuss about vibration and noise.

Or

- (b) Discuss about noise control.

13. (a) Discuss about storage and transportation of chemicals.

Or

- (b) Discuss about handling of chemical wastes.

14. (a) Discuss about signals and displays.

Or

- (b) Discuss about sitting position and standing position.

15. (a) Discuss about safety committee.

Or

- (b) Discuss about machine guards.

Part C $(3 \times 10 = 30)$ Answer **all** questions.

16. (a) Discuss in detail about safety while using cranes.

Or

- (b) Discuss in detail about electricity and its risk.

17. (a) Discuss in detail about workplace lighting and noise.

Or

- (b) Define PPE. What are the types of PPE? Explain all PPE's from head to toe with examples.

18. (a) Explain detail about causes and control measures of occupational skin diseases.

Or

- (b) Discuss about welfare facilities to be provided to workers.

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Sub. Code

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B.Sc. DEGREE EXAMINATION, APRIL 2018

Second Year

Fire and Industrial Safety

EHS LAWS (INTERNATIONAL STANDARDS AND REGULATIONS)

(2016 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. Define accident.
2. Define nearmiss.
3. Mention any four works that require work permit.
4. Define housekeeping.
5. What is fire?
6. Define SOP?
7. What are the types of scaffoldings?
8. Mention any four emergency condition at workplace.
9. Define noise. What is the acceptable level of noise?
10. What is first aid?

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

11. (a) Write a short note on Tamil Nadu safety officer rules.

Or

- (b) Write a short note on SMPR act.

12. (a) Write a short note on lighting and ventilation.

Or

- (b) Write a short note on housekeeping.

13. (a) Write a short note on SOP.

Or

- (b) Write a short note on ladder safety.

14. (a) Write a short note on lifting machinery safety.

Or

- (b) Write a short note on emergency planning and preparedness.

15. (a) Write a short note on OHSAS 18001.

Or

- (b) Write a short note on radiation safety.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail about PPE and its types.

Or

- (b) Explain in detail about permit to work system.

17. (a) Explain in detail about hoists and lifts.

Or

- (b) Explain in detail about scaffolding safety.

18. (a) Explain in detail about ISO 14001.

Or

- (b) Explain in detail about EHS committee and its responsibilities.

CP-8627

Sub. Code

31

B.Sc. DEGREE EXAMINATION, APRIL 2018.

Third Year

Fire And Industrial Safety Management

**DISASTER MANAGEMENT AND APELL —
AWARENESS AND PREPAREDNESS DURING
EMERGENCIES AT LOCAL LEVEL**

(Upto 2015 Batch)

Time : 3 Hours

Maximum : 75 Marks

Part A

(5 × 3 = 15)

Answer **all** questions.

1. Write a short note on disaster risk reduction.
2. Write about role of APELL.
3. Explain briefly the disaster recovery plan.
4. What are the principles of disaster management?
5. What do you mean by mitigation?

Part B

(5 × 12 = 60)

Answer **all** questions.

6. (a) What are the principle components of disaster management?

Or

- (b) Explain drought management.

7. (a) Explain the hazard identification and vulnerability analysis.

Or

- (b) Explain the modern and traditional responses to disaster.

8. (a) Explain about evacuation procedure.

Or

- (b) Explain about evacuation, escape and rescue.

9. (a) Explain disaster risk and reduction.

Or

- (b) Explain about the need of APELL and how does it works.

10. (a) Explain about the Orissa super cyclone on October 1999.

Or

- (b) Write about Bhuj-Kutch earth quake.
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Sub. Code

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B.Sc. DEGREE EXAMINATION, APRIL 2018

Third Year

Fire and Industrial Safety Management

HAZARD AND RISK MANAGEMENT

(Upto 2015 batch)

Time : 3 Hours

Maximum : 75 Marks

Part A

(5 × 3 = 15)

Answer **all** questions.

1. What is Safe-T-score?
2. Define Frequency Rate and Severity Rate with Formula.
3. What do you mean by HIRA?
4. What is the purpose of AIR?
5. Explain temporary total disabilities.

Part B

(5 × 12 = 60)

Answer **all** questions.

6. (a) What are the types of hazards? Explain each hazard with suitable examples.

Or

- (b) Explain about Risk matrix.

7. (a) Explain about HAZOP. Mention any 6 keywords with examples.

Or

- (b) Examine the elements that are considered while sketching out a JSA format in industries. Give an example.

8. (a) Explain in detail about Fault Tree Analysis.

Or

- (b) Explain ETA and explain its importance.

9. (a) Explain the following:

- (i) Domino's Sequence.
- (ii) SHELL model.

Or

- (b) Explain in detail about advantages and disadvantages of Domino's sequence.

10. (a) Conduct HIRA for any 6 activities at a construction site.

Or

- (b) Explain the importance of safety performance monitoring.

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B.Sc. DEGREE EXAMINATION, APRIL 2018

Third Year

Fire and Industrial Safety Management

SAFETY INSPECTION AND AUDIT

(Upto 2015 batch)

Time : 3 Hours

Maximum : 75 Marks

Part A

(5 × 3 = 15)

Answer **all** questions.

1. Explain the duties of inspection team and their obligations.
2. Mention the checklist for safety auditing.
3. What do you understand from 'Continual Improvement' under OHSAS 18001:2007?
4. What is the importance of ISO 14000?
5. Explain the procedure for preparing accident reports.

Part B

(5 × 12 = 60)

Answer **all** questions.

6. (a) Explain in detail about the inspection procedures.

Or

- (b) Explain about the specialized inspections.

7. (a) What are the various types of audits? Explain auditing procedure in detail.

Or

- (b) Develop checklists for identifying unsafe acts of workers and unsafe conditions in shop floor.

8. (a) Explain about the short term action plan.

Or

- (b) Distinguish between ISO 14001:1996 and ISO 9001:1994.

9. (a) Explain the importance of ISO 14000 for a management.

Or

- (b) What are the key principles of ISO 14001:2004? Describe the auditing ISO 14000.

10. (a) Discuss the proactive and reactive monitoring.

Or

- (b) Explain about the records and records management.

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Sub. Code

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B.Sc. DEGREE EXAMINATION, APRIL 2018

Third Year

Fire and Industrial Safety Management

CONSTRUCTIONAL SAFETY

(Upto 2015 batch)

Time : 3 Hours

Maximum : 75 Marks

Part A

(5 × 3 = 15)

Answer **all** questions.

1. What are the causes of fatal accidents? Explain.
2. What is work permit?
3. Write a note on safe use of ladders.
4. Explain the function of fall arrestors.
5. Define: Girder and beams.

Part B

(5 × 12 = 60)

Answer **all** questions.

6. (a) Discuss about the recording of accidents and safety measures.

Or

- (b) Explain briefly about the human factors associated with accidents.

7. (a) Write short notes on:
- (i) Confined space and list out hazards in confined space
 - (ii) Power plant constructions.
 - (iii) Excavation, Shoring, and Trench.

Or

- (b) Explain the following in detail.

- (i) Road works
- (ii) Work over water
- (iii) Tunneling
- (iv) Dismantling

8. (a) Write short notes on:
- (i) Education and training
 - (ii) Quality assurance in construction
 - (iii) Recording of accidents and safety measures.

Or

- (b) Explain about fall prevention and fall protection.

9. (a) Describe the safety precautions needed while operating hoisting cranes, mobile cranes and winches.

Or

- (b) List and discuss the points to be observed during inspection and testing of tower cranes.

10. (a) Write in detail about the interesting experience at the construction site against the fire accidents.

Or

- (b) Write in detail about the safe clearance zone at safety demolition work.

CP-8631

Sub. Code

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B.Sc. DEGREE EXAMINATION, APRIL 2018

Third Year

Fire and Industrial Safety Management

**INDUSTRIAL SAFETY MANAGEMENT AND
OSHA STANDARDS**

(Upto 2015 Batch)

Time : 3 Hours

Maximum : 75 Marks

Part A

(5 × 3 = 15)

Answer **all** questions.

1. What are the factors to be considered for selection of plant location?
2. What is machine guarding?
3. What is meant by Welding & give the conditions for obtaining satisfactory welding?
4. Define radiography and list out the features of radiography.
5. What are the features of OHSAS 18001?

Part B

(5 × 12 = 60)

Answer **all** questions.

6. (a) Explain various safety features to be considered in selection of plant location.

Or

- (b) Explain various safety measures in the method of industrial sewage disposal.

7. (a) Describe the policies for ZMS and Explain automatic guard.

Or

- (b) Explain the selection and suitability of Grinding, Shaping and Sawing.

8. (a) Define hot work and explain the hazards in hot work and safety procedures.

Or

- (b) Write safety precaution for welding and cutting works.

9. (a) Explain heat treatment operations and various safety measures in heat treatment.

Or

- (b) Explain various safety measures in Electroplating and explain its process.

10. (a) Explain about OSHA and development of OSHA standards.

Or

- (b) Explain the methodology used in planning & developing the action plan.