

<b>CP-8466</b>
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<b>11</b>
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**DIPLOMA EXAMINATION, NOVEMBER 2017**

**Fire and Industrial Safety Engineering**

**COMMUNICATIVE ENGLISH**

**(2016 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What is the aim of education?
2. What are the three visions, according to Abdul Kalam?
3. What did happen when Scott removed the boy's button?
4. Why did the boy make the mistake purposefully in Crime and Punishment?
5. How does Atwood call survival?
6. What does quick man say on conjurer's every trick?
7. How many tense forms are there? List out it.
8. Briefly describe adverbs.
9. Define articles with some examples.
10. Define any two modal auxiliaries.

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) What are the essential ingredients of education according to Sir Richard Livingstone?

Or

- (b) Explain Kalam's third vision.

12. (a) Why does the teacher support the boy at the end of the story *Crime and Punishment*? Explain.

Or

- (b) How did Nehru praise Mahatma Gandhi? Explain.

13. (a) Sketch the character of Bob.

Or

- (b) Describe conjurer's tricks.

14. (a) Define the kinds of verbs with examples.

Or

- (b) Describe adverbial clause.

15. (a) List out ten prepositions with examples.

Or

- (b) Change the following sentences into possible degrees:

- (i) Rani is taller than Soni.  
(ii) No other boy in my class is as old as Babu.  
(iii) Gold is costlier than silver.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) Attempt an essay on the Essentials of education.

Or

- (b) Describe Indira Gandhi's views on Youth.

17. (a) Comment on *Crime and Punishment*.

Or

- (b) "Is Arguing useful or useless" — Describe.

18. (a) Write an essay on *After Twenty Years*.

Or

- (b) Illustrate different kinds of Tenses with examples.
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<b>12</b>
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**DIPLOMA EXAMINATION, NOVEMBER 2017**

**Fire and Industrial Safety Engineering**

**FIRE SAFETY – PREVENTION AND CONTROL**

**(2016 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Write short note on petroleum act.
2. Define fire Hydrant system.
3. What is meant by form chamber?
4. List out any two safety measures in petrol pump.
5. Define PASS method.
6. Write legislation requirements for residential buildings.
7. What are the causes in fire and explosions in transportation?
8. Define CNG and LNG.
9. Differentiate between RCCB and MCCB.
10. Define DOSETS.

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write short notes on following Acts:

(i) Factories Acts. (2)

(ii) Explosives Act. (3)

Or

(b) Brief notes on maintenance of automatic fire detection.

12. (a) Explain foam fire extinguishing system.

Or

(b) Write notes about fixed Root Tank protection.

13. (a) Write the safety measure for shopping malls.

Or

(b) Brief a note on protection measure in Garages.

14. (a) Write the safety measure for Hazardous Goods.

Or

(b) Explain the fire safety measure for motor vehicles.

15. (a) Brief about safety in Transformers.

Or

(b) Write down the application and use of ELCB.

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

16. (a) Explain the Installation methods of fire Hydrant System.

Or

- (b) Write down the guidelines for maintenance of automatic fire detection and Alarm system.

17. (a) Briefly write about LPG safety.

Or

- (b) Write the design criteria for tank farm area and fire protection system.

18. (a) Explain about inventor safety unity.

Or

- (b) Briefly write the safety measures in electrical wiring.
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<b>13</b>
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**DIPLOMA EXAMINATION, NOVEMBER 2017**

**Fire and Industrial Safety Engineering**

**LIFTING EQUIPMENTS AND TRANSPORT SAFETY**

**(2016 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What is forklift training?
2. What is safe lifting?
3. Mention any four mechanical aids/equipments.
4. Define SWL.
5. What are the steps involved in inspection and maintenance of OET crane?
6. What are the two types of web slings?
7. Define defensive driving.
8. Define foresight.
9. Mention any four fuel saving tips for two/three wheelers.
10. What are SMPV and CMVR?

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

11. (a) Write short notes on workers on foot.  
Or  
(b) Write short notes on checking loads.
12. (a) Write a short note on defects in wire rope sling.  
Or  
(b) Explain about procuring new lifting tackles (slings) and maintaining them in the shop.
13. (a) Explain any five standard hand communication signals.  
Or  
(b) Explain the types of choker hitch.
14. (a) Explain the various driving errors.  
Or  
(b) Explain the tips for bicycle riders.
15. (a) Explain the safety tips on vehicular use of CNG.  
Or  
(b) Write a short note on Rule 133-EIP.

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

16. (a) Explain about employer/management.  
Or  
(b) Explain the safety precautions in storing compressed gas cylinders.

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 six conditions which an expert driver must consider while driving.

Or

- (b) Explain the various maintenance tips for vehicles.
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<b>14</b>
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**DIPLOMA EXAMINATION, NOVEMBER 2017**

**Fire and Industrial Safety Engineering**

**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 three main causes of accidents?
2. Define CPR.
3. What is a workplace climate?
4. Define contrast and reflection.
5. What are the ways a chemical can cause injury to humans?
6. What are the types of gases? Give examples.
7. What are the basic requirements of the work chair?
8. What are the problems of weekly rest?
9. What is a workplace inspection record?
10. What is meant by information?

**Part B**

(5 × 5 = 25)

Answer **all** questions.

11. (a) What are the ways in which access routes/aisles are safe?

Or

- (b) Write a short note on the risks connected with the following machine work.
- (i) Drilling machines
  - (ii) Machines for cutting and slicing.

12. (a) Write a short note on the following

- (i) Heat exhaustion
- (ii) Heat stroke
- (iii) Acclimatization.

Or

- (b) What are the steps to keep the workplace cooler?

13. (a) Write a short note on the following:

- (i) Solvents
- (ii) Acids and Alkalis.

Or

- (b) Write a short note on the following:

- (i) Ventilation and maintenance
- (ii) Ventilation in car plants and workshops.

14. (a) What do you mean by lifting? Illustrate the correct ways of lifting.

Or

- (b) Explain the important points while working in a standing position.

15. (a) What are the objectives for safety, health and well-being at work?

Or

- (b) What are the important points in carrying out workplace inspection?

**Part C** (3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the procedures in giving first aid to an injured person.

Or

- (b) Explain the important points in observing good housekeeping.

17. (a) Explain the instruments to measure the working conditions.

Or

- (b) Explain in detail about a poorly organized work and a good job.

18. (a) Explain the contaminants of atmospheric pollution.

Or

- (b) Explain the best practices for maintaining safety and hygiene for all the workers.

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**DIPLOMA EXAMINATION, NOVEMBER 2017.**

**Fire and Industrial Safety Engineering**

**SAFETY ON ELECTRICAL AND CHEMICAL HAZARDS**

**(2016 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What are the electrical injuries?
2. Write some tips to avoid dangerous shock.
3. What is static electricity?
4. What are the hazards present in static electricity?
5. What do you mean by IDLH?
6. What are routes of entry for chemicals?
7. What is the treatment for electric shock?
8. Define capacitor.
9. Write the preparation of offsite emergency plan.
10. What are the general responsibilities of the occupier?

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

11. (a) Write the instructions to avoid electrical injuries in detail.

Or

- (b) How will you save the electricity in compressed air system?

12. (a) Explain charge generating mechanism.

Or

- (b) Explain earthing and bonding.

13. (a) Write short notes on solvents and their hazards.

Or

- (b) Write short notes on acids and bases.

14. (a) Write the general duties of the occupier under the section 7-A (1) & (2) (a) (c).

Or

- (b) Briefly explain the international standards.

15. (a) Explain the notification of the major chemical accident.

Or

- (b) Briefly explain the flammable chemicals.

**Part C**

(3 × 10 = 30)

Answer **all** questions.

16. (a) What are the steps involved in the checklist for electrical installation?

Or

- (b) Explain the static electricity, hazards associated with static electricity and also write the control measures for it.
17. (a) Explain the classification of flammable liquids and write the control measures for it.

Or

- (b) Describe the Indian Electricity Act, 1910.
18. (a) What are the details to be furnished in Offsite Emergency Plan?

Or

- (b) What are the general responsibilities of :
- (i) Transporter
  - (ii) Driver
  - (iii) Owner.
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