

C-1602

Sub. Code

90312

DIPLOMA EXAMINATION, NOVEMBER 2019

First Semester

Fire and Industrial Safety

FIRE PREVENTION AND PROTECTION

(2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is Fire?
2. What is Combustion?
3. What is Public fire alarm system?
4. What are Notification devices in fire alarm system?
5. What is PASS method?
6. List out types of sprinkler heads.
7. What is respiratory PPE?
8. Define : UEL and LEL.
9. What is ventilation?
10. What is hot work process?

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

11. (a) Explain about fire protection system and its types.

Or

- (b) Explain in details about fire fighting methods with examples.

12. (a) Explain NFPA 72 classification for fire alarm system.

Or

- (b) Explain about Audible and visible initiating devices.

13. (a) Explain parts of fire extinguisher with diagram.

Or

- (b) Explain about water based sprinkler system.

14. (a) Explain in details about National electrical code.

Or

- (b) Explain about transfer of flammable and combustible liquids.

15. (a) Explain about ventilation and its types.

Or

- (b) Explain about handling and storage of flammable and combustible liquids.

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

16. (a) Explain in details about Fire extinguisher.

Or

(b) Explain about Hazardous materials.

17. (a) Explain about fire alarm system.

Or

(b) Explain about fire hydrant system.

18. (a) Explain about Electrostatic spray operation.

Or

(b) Define hot work area and its fire fighting equipments.

C-1603

Sub. Code

90313

DIPLOMA EXAMINATION, NOVEMBER 2019

First Semester

Fire and Industrial Safety

PERSONAL PROTECTIVE EQUIPMENTS

(2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is hazard and its types?
2. What is PPE and its types?
3. What is IR / UV radiation?
4. What is Noise?
5. What is housekeeping?
6. What is confined space?
7. What is respiratory PPE?
8. Define first aid.
9. What is WAH?
10. Expands: SCUBA, APR, SAR, SCBA.

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

11. (a) Explain about head protection.

Or

- (b) Define ear protection.

12. (a) Illustrate Leg protection.

Or

- (b) Define Hand protection.

13. (a) Explain about skin protection.

Or

- (b) Explain about machine guarding with its types.

14. (a) Illustrate SCBA.

Or

- (b) Explain about SCUBA.

15. (a) Explain about HASAWA act 1974.

Or

- (b) Explain about Fall Protection Systems.

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

16. (a) Explain in details about safety helmets parts, Types, Colour code, Care and maintenance.

Or

- (b) Briefly explain about Ear and Eye protections equipments.

17. (a) Explain: respiratory protection PPE with types.

Or

(b) Create PPE check list for construction work activities.

18. (a) Explain: foot and leg protective equipments.

Or

(b) Explain about WAH and Fall Protection system.

C-1604

Sub. Code

90314

DIPLOMA EXAMINATION, NOVEMBER 2019

First Semester

Fire and Industrial Safety

ELECTRICAL SAFETY

(2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is Voltage?
2. What is capacitor?
3. What is excess energy?
4. What is ionization?
5. Define: fuse.
6. Expand: ELCB, GFCI.
7. What is PTW?
8. Define: LOTO.
9. List out some portable electrical tools.
10. What is Hazardous zone?

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

11. (a) Define Ohm's law.

Or

(b) Explain in details about CPR.

12. (a) Explain about Lightning arrestor.

Or

(b) Explain about over current and short current.

13. (a) Briefly explain about Electrical guarding.

Or

(b) Illustrate circuit breaker and overload relay.

14. (a) Explain in details about role of environmental in selection of electrical equipments.

Or

(b) Write short notes on preventive maintenance plan with format.

15. (a) List out classification of hazardous zones.

Or

(b) Explain about Equipment certifying agencies and list out some agencies name.

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

16. (a) Explain in details about Indian electricity rules.

Or

(b) Explain about first aid treatment for electrical injury.

17. (a) Explain about Earthing & Earth pit maintenance.

Or

(b) Illustrate ELCB & GFCI.

18. (a) (i) Explain about PTW.

(ii) Explain about LOTO.

Or

(b) Write any ten international standards on electrical safety.
