

Total No. of Pages: 2

**8000**

Register Number:

Name of the Candidate:

**DIPLOMA EXAMINATION December 2014**

**(FIRE AND SAFETY)**

**110. FIRE ENGINEERING**

Time: Three hours

Maximum Marks: OR-100 Marks

: NR-75 Marks

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**SECTION-A**

**(3×20=60)**

**Answer any THREE questions**

1. a) With a neat sketch explain different Foam and Foam making Equipments. (10)
- b) Mention the different types of Hydrants commonly used and list the various Hydrant fittings used. (10)
2. a) Write a detailed note on chemistry of process of combustion and Heat. (10)
- b) Mention the different types of fires and the methods to extinguish them. (10)
3. a) Write a detailed note on major Fire Fighting appliances and Fire Alarm systems. (10)
- b) Mention the precautions and safety measures to be followed in transporting Explosive materials. (10)
4. a) Write a detailed note on major Fire Fighting PPE'S and on Proximity suits. (10)
- b) Mention the precautions and safety measures to be followed in Air craft and Ship fires. (10)
5. a) Write a detailed note on codes on Fire in International and National Level. (10)
- b) Write a detailed note on Fire-Rescue operation and on First Aid. (10)

**SECTION-B**

**(4×10=40)**

**Answer any FOUR questions**

6. a) Write a detailed note on different types of Hoses and Hose Fittings. (5)
- b) Write a detailed note on Pumps and Primers used in Fire fighting appliances. (5)
7. a) With the help of a sketch, explain the usage of I.C Engines and Cooling Systems. (5)
- b) Write a detailed note on Fire-Rescue operation and Fire prevention in high raised buildings. (5)

**8000**

8. a) Explain any one fixed fire fighting installation. (5)  
b) Write a detailed note on Fire Crash tender. (5)
9. a) List out the First Aid treatment for burns. (5)  
b) Explain briefly about the Escape measures applicable in case of fire. (5)
10. a) Write briefly about chemical fires. (5)  
b) Write a detailed note on Fire-prevention operation in handling hazardous chemicals. (5)
11. a) Write a note on Fire alarm systems. (5)  
b) Name the different classification of fire and the type of fire extinguishers available. (5)
12. a) Describe the working of any one Fire Extinguisher. (5)  
b) Discuss in detail about the safety in the shortage of flammable substances. (5)

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