Firefighter I Exam 2023

Study Guide

1. Define the term spalling.
2. Identify the three factors that cause steel to fail.
3. Identify the five-step process used by dispatch for an emergency incident.
4. Explain the purpose of SOP’s.
5. Explain the benefits of using computer-aided dispatch systems.
6. Explain the components of an initial radio report.
7. Explain how nozzles affect fire streams.
8. Explain the differences between a fog stream and a smooth-bore stream.
9. Know the nozzle pressures for:
   1. Fog nozzle.
   2. Smooth bore nozzle (handline).
   3. Smooth bore nozzle (master stream).
10. Explain the difference between these hose loads:
    1. Flat.
    2. Triple-layer.
    3. Minuteman.
    4. Preconnected flat.
11. Explain the characteristics of a liquid.
12. Identify the four main methods of extinguishing a fire.
13. Explain the difference between a backdraft and a flashover.
14. Explain the differences between radiation, convection, and conduction.
15. Explain the fire fighter’s role in fire cause determination.
16. Identify the factors that determine when overhaul begins.
17. Identify the situations when a piercing nozzle could be used.
18. Identify the most common cause of fire fighter death on the fire scene.
19. Define the term personnel accountability report.
20. Define the term safe location.
21. Define the term air management.
22. Explain the use and care of hand tools.
23. Describe the use and benefits of master streams.
24. Explain the reason for applying water to the undercarriage of car.
25. Identify the characteristics of compressed natural gas.
26. Describe the procedure to break the window of a vehicle on fire.
27. Define the safety concerns of stacked or piled materials on the fire scene.
28. Identify the uses for class A and class B foam.
29. Identify the main objective when operating in a defensive mode.
30. Identify the steps of forcing a door to open.
31. Explain the difference between a slab door and a ledge door.
32. Explain the difference between a jalousie window and a casement window.
33. Explain why fireground operations need to be coordinated.
34. Explain how hydraulic tools work.
35. When should a critical incident stress debriefing be held.
36. Identify the components of a:
    1. Trussed beam ladder.
    2. Extension ladder
37. Identify safety concerns when working with ladders.
38. Identify the ideal angle for climbing ladders.
39. Explain how to safely climb a ladder.
40. Identify when a ladder is service tested.
41. Age, education requirements, and medical requirements are established at what level.
42. Employee Assistance Programs provide what type of help.
43. Identify the classes of fire extinguishers and the types of fire they extinguish.
44. Explain the rating system used for fire extinguishers.
45. Explain how carbon monoxide affects the bloodstream.
46. Identify the four main components of a SCBA.
47. Identify the characteristics of low-pressure air cylinders.
48. Identify the purpose of a universal air connection device.
49. Describe how a PASS device works.
50. Identify the limitations of wearing, using a SCBA and how to overcome them.
51. Identify the particles of smoke.
52. Identify the components of turnout gear.
53. Identify things firefighting should be resistive to.
54. Identify the steps for cleaning a SCBA.
55. Define the term curb box.
56. Describe the placement of emergency vehicles during an incident on the highway.
57. Explain how ANSI 207 pertains to First Responders.
58. Identify the features of an accountability system.
59. Explain the difference between utility rope and safety rope.
60. Explain the difference between static and dynamic rope.
61. Identify the different types of figure eight knots and their purpose.
62. Define the term tag line.
63. Explain the procedure to clean rope.
64. Identify the 16 Fire and Life Safety Initiatives.
65. Explain the guideline for personal hydration.
66. Describe overhaul procedures.
67. Explain the difference between a catch-all and water chute.
68. Describe the procedure for salvaging room contents.
69. Describe how to stop water flowing from a sprinkler head.
70. Describe safety concerns for using electric tools on the fire ground.
71. Define the term flashover.
72. Identify and describe the four simple victim carries.
73. Explain the difference between hydraulic and mechanical ventilation.
74. Explain the advantages and disadvantages of using doorways and windows as ventilation openings.
75. Describe the procedures and safety concerns for vertical ventilation openings.
76. Identify municipal water system hydrant pressure range.
77. Define the term grid system pertaining to water systems.
78. Identify the maximum distance a static water source can be away when the apparatus drafting is on a hard surface.
79. Define the term wildland-urban interface fire.
80. Identify weather factors that influence a wildland fire.
81. Explain the procedure to talk on a radio.
82. Explain the advantages of a preconnected hose line.
83. Explain the difference between unified command and unity of command.
84. Explain the importance and when utilities should be controlled at a fire scene.
85. Identify GPM’s of master streams.