#### Rapid-Fire

#### Student Edition Test Page

Dynamic Information Systems welcomes all Firefighters, EMT's, and others.

©Dynamic Information Systems

#### **TEST**

#### Fire Department Incident Safety Officer

- .L What should dictate what type of avoidance zone is needed? p. 118
  - A.) Required personal protective equipment
  - B.) Procedures
  - C.) Training level of responders
  - \*D.) Severity of the threat
- <u>2</u>. Incidents that will last over what period of time should have a formal rehab in place?
- p.137
  - **\*A.)** 2 hours
  - B.) 1 /zour
  - C.) 4 hours
  - D.) 3 /zours
- 1. What helps to differentiate solar thermal panels from PV panels?
- p. 111
  - A.) Coloration of the solar thermal panels
  - B.) Location of tile solar thermal panels
  - C.) Wiring in the solar thermal panels
  - \*D.) Piping in the solar thermal panels
- 4. What does physiological performance depend upon? p. 131
  - A.) Rehabilitation efforts
  - \*B.) Metabolic processing
  - C.) Work hardening
  - D.) Thermal acclimation
- 5. What level ISO or ASO must be appointed for hazmat incidents?
- p.155

- \*A.) Tec/znician
- **B**.) Operational
- C.) Administrative
- **D.)** Awareness

## 6. What needs to be dialed in to help the firefighter perform better and help prevent inJuries?

p. 126

- \*A.) Nutrition
- B.) Training
- C.) Relationships
- D .) Mental health

## 7. Which is NOT a correct statement about the rehab area during an incident?

p. 137

- \*A.) T/ze area s/zould be set up with a line of sight to the incident
- B.) Hand and face cleaning provisions are a must when food is being served
- C .) The area should be divided into segments
- D.) Listen to and gauge the firefighters' general mood and attilled in the relaxation area

### .fl... What is the minimum d stance from a downed power line that the firefighter should maintain?

p. 107

- **A.**) 30feet (9 m)
- \*B.) 10 feet (3 m)
- C.) 40 feet ( 12 m)
- **D.)** 20 feet (6 m)

#### 9. What color is used to indicate a medium-voltage drive train?

p. 114

- A.) Orange
- B.) Yellow
- C.) Red
- \*D.) Blue

#### 10. Which is NOT a hazard associated with drive/brake systems? p. 114

- A.) *Springs*
- **B.)** Pressure vessels
- C.) Exotic metal fumes
- \***D.**) *Belts*

## J1.. Which weather aspect is the most important to the firefighter?

p. I15 ·

- A.) Potential for change
- B.) *Temperature*
- C.) Humidity
- \*D.) Wind

#### <u>12.</u> Whi h types of threats can usually be handled with soft interventions by the ISO?

p. 148

- A.) Causative
- **B**.) *lmminellf*
- C.) Immediate
- \*D.) Potential

#### 13. What is the unit of measure for volume of current flow? p.106

- A.) Watt
- \*B.)Ampere
- C.) *Ohm*
- D.) Voltage

## <u>14.</u> What is the est course of action when dealing with a fire in a large wind turbine?

p. 109

- A.) Initiate an overall turbine shutdown operation
- B:) leave t/ze area and contact the farm owner
- \*C.) Watch from the perimeter of a large collapse zone
- **D.)** Perform an aggressive attack with large hoselines

## 15. How many degrees of deviation from the average body temperature can a healthy adult tolerate before physical performance is affected?

- A.) Four or five
- B.) Three or four
- \*C.) One or two
- D.) Two or three
- 16. How much of the collapse height should be added (as a minimum) when establishing control zones?
  p. 119
  - \*A.) 50%
  - B.) 150%
  - C.) 200%

D.) 100%

## <u>17.</u> How long should the firefighter perform aerobic exercise **to prepare for service?**

p. 126

A.) 10-20 illilmles

\*B.) 30-40 minutes

C.) 40-50 minutes

D.) 20-30 ninutes

## .UL Where must decal or sticker be located on the vehicle that uses compressed natural gas as fuel?

p. 114

- \*A.) Right•rear portion
- 8.) Left-front portion
- C.) Right-front portion
- D .) Left-rear portion

#### 19. Which is NOT a correct statement about electrical shock hazards?

p. 106

- A.) Fences and building rain gutters are dangerous shock hazards
- **8** .) Smoke can become electrically cha\_rged
- \*C.) Fire hose operations are safe around energized power lines
- D.) Electrical current can flow through the ground

#### 20. Who should the new ISO close the IAP loop with?

p. 156

\*A.)JC

8.) ISO

C.) AP

D.) ASO

## 21. Which is considered to be the most complex incident in which all of the ICS positions are activated?

p. 157

A.) *Type 4*.

**\*B.**) *Type I* 

C.) *Type5* 

D.) *Type 2* 

#### 22. Which is considered the most difficult abatement strategy to utilize during an incident?

p. 128

A.) Accommodation

- \*B.) Acclimation
- C.) Avoidance
- D.) Awareness
- 23. With which type of heat injury will the skin be cool and clammy and may be ac ompanied by nausea and dizziness? p.129
  - A.) Heatstroke
  - \*B.) Heat exlzausti.on
  - C.) Heat cramps ·
  - D.) Heat rash
- 24. **Which** type of environmental stressor includes distractions?
- p. 127
  - A.) Firefighter awareness
  - \*B.) Plzysical setting
  - C.) Heat stress
  - D.) Task requireme"nts
- 25. What is characterized by blotches of red skin especially around the neck, cheeks, underarms, and groin? p. 129
  - A.) Heatstroke
  - 8 .) Heat exhaustion
  - C.) Heat cramps
  - \*D.) Heat rash
- 26. What is a by-product that responders should be aware of in battery rooms?
- p. 111
- A.) Arsenic gas
- \*B.) Hydrogen gas
- C.) Nitrogen gas
- D.) Carbon gas
- 27. What should be the preferred method of communications with the IC and outside crews for the ISO?
- p.152
  - \*A.) Face-to-face
  - B.) *Relayed message*
  - C.) Writtenmessage
  - D.) Radio
- 28. Which of the following is considered an active safety trigger?
- p.146

- A.) Making a note
- \*B.) Soft intervention
- C.) Being visible
- **D.)** Setting an example

### **29.** Which is NOT correct about the wind turbine? p.109

- A.) There is pressure outflow along the circumference of the blade travel
- **B** .) The blades create negative pressure upwind
- \*C) Only the atmospheric wind causes movement
- D .) The blades create positive pressure downwind

#### **30.** Which acronym can be useful when transferring the ISO function?

p. 156

A.)MOVER

B.)MINDS

\*C.)MEDIC

D.) MANES

#### 31. How many pounds per square foot is added to the roof when

a PV module is installed?

p. 111

- \*A.) 3 to 5 pounds
- B.) 1 to 3 pounds
- C.}4 to 6 pounds
- D.) 2 to 4 pounds

#### 32. What is considered top priority during rehab operations?

p. 136

- A.) Energy nutrition
- B.) *Hydration*
- \*C.) Rest
- D.) Monitoring and care

#### 33. What is the first order of business once assigned the ISO role at an incident?

p.154

- \*A.) Con.firm the IAP with the IC
- **B**.} *Perform a scene size-up*
- C.) Get hands-on with the operations
- **D.)** *Initiate equipment checks with members*

### 34. Which ICS form would be used for a simple incident briefing?

- A.) JCS 214
- \*B.) JCS 201
- C.) /CS 215A
- D.) JCS 208
- . 35. What does oxygen combine with in the cell to create energy?
  - p. 132
    - A.) Blood
    - B.) Water
    - C.) Heat
    - \*D.) Fuel
  - **36.** What is the minimum size hail that would indicate the possibility of a possible tornado?
  - p. 117
    - A.) 314-inch
    - \*B.) 1/4-inclz
    - C.) 1/2-inch
    - D.) 2/3-inch
  - 37. Up to what size concentric ring can be created from a downed power line?
  - p. 106
    - A.) 60/eet (18 m)
    - B.) 15/eet (4.5 m)
    - \*C.) 30 feet (9 m)
    - D.) 45 feet (13.5 m)
  - 38. Which is NOT an ergonomic stressor that can lead to injury?
  - p.127
    - A.) Worker relationship in the setting
    - \*B.) Accommodation attempts
    - C.) Task requirements
    - D.) Physical setting
  - 39. What size area should be cleared when dealing with overhead power pole fires?
  - p.107
    - A.) Half the distance between two poles
    - B.) Half the distance between three poles
    - \*C.) Distance between two poles
    - **D.)** Distance between three poles
  - 40. Which is the most serious heat stress injury and is a result of the failure of the body's cooling mechanisms?

p. 129

- A.) Heat cramps
- \*B.) Heatstroke
- C.) Heat rash
- **D.)** Heat exhaustion

#### 41. Where are air brake chambers located on semi truck tractors?

p. 114

- A.) *In front of each -wheel assembly attached\_ to the axle*
- B.) Behilld each wheel assembly attached to the body
- C.) In fro11t of each wheel assembly attached to the body
- \*D.) Behind each wheel assembly attached to the axle

## 42. Where would the tingling be felt when arcing potential is present?

p. 106

- A.) Torso
- \*B.) Face
- C.) Legs
- D.) Feet
- 43. What size tank would require a minimum 1 mile (1,609 m) evacuation distance when the threat of a BLEVE is present? p. 112
  - **A.)** I,000 to 18,000 gallons
  - B.) 6,000 to 19,000 gallons
  - C.) More than 25,000 gallons
  - \*D.) More than 18,000 gallons

## 44. Which type of clouds would indicate high winds that may produce strong down slope winds if they surface?

p. 115

- A.) Cumulonimbus
- **B.)** Nimbus
- C.) Stratus
- \*D.) Lenticular

#### 45. What should the ISO be especially wary of when watching the weather for a significant change?

- A.) Wind speed
- \*B.) Sudden calm
- C.) Temperature
- D.) Low clouds

#### 46. Which should be done when fighting fires near downed power lines?

p. 107

- A.) Apply water to burning electrical equipment
- J3.) Use a solid-stream nozzle
- C.) Apply water to arcing electrical equipment
- \*D.) Use a high.pressure fog nozzle

#### 47. Wliat is the actual freezing of skin tissue?

p. 13·0

- A.) Frostbum
- \*B.) Frostbite
- C.) Frost rash
- D.) *Frostnip*

#### 48. Which part of the body is best used during active cooling?

p. 130

- A.) Knees
- 8.) Elbows
- \*C.) Forearm
- D.) Feet

### 49 How much water should firefighters strive to drink during periods of wo k?

p. 13 2·

- A.) One cup
- \*B.) Ont: quart
- C.) Two cups
- D.) Two quarts

## <u>50.</u> For what amount of time does most literature suggest water hydration should be used before sports drinks are introduced?

p.133

- A.) 45 minutes
- 8.) *90 minutes*
- C.) 30 minutes
- **\*D.**) 60 ininutes

# $\underline{5 \text{ I}}$ . With what frequency should you feed firefighters when mental and physical demands remain on the fire scene? p.134

- A.) 3-4 hours
- 8.) 1-2 hours
- C.) 4-5 hours
- \***D.**) 2.3 hours

### <u>52.</u> What do most NIOSH investigations into multifire fighter fatality incidents fault?

p. 152

- A.) /AP failu res
- \*B.) Communication failures
- C.) Authority failures
- D.) JCS expansion failures

#### 53. Where shQuld the ISO be located when an ASO is appointed to an incident?

p. 155-156

- \*A.) Wit/z t/ze IC
- **B**.) Roaming the scene
- C.) Near the ASO
- D.) Within the building

#### $\underline{5}4$ . What should be brought to the IC when a problem needs to be solved during an incident?

p.153

- A.) Solution only
- **B**.) *Multiple solutions only*
- \*C.) Problem and solution
- D.) *Problem onl* y

## <u>55.</u> How can most hazards associated with building electrical components beeliminated?

p. 110

- A.) *Unplug all major appliances*
- \*B.) S/mt off power at t/ze main
- C.) Cut the main control power line
- D.) *Shutdow n the pole .mow zte d transformer*

#### <u>56.</u> What should be the last part of the process when bringing a concern to the IC's attention?

p. 154

- \*A.) What do you think?
- **B.**) This is what I would do.
- C.) Here 's what I see.
- D.) Here's what I think it means.

#### <u>57.</u> What is used to regulate the voltage needs within a building?

- \*A.) Trans/ormer
- B.) Control panel
- C.) Wiring

D.) Breaker box

- <u>58.</u> What should be used to communicate an imminent threat on the fire ground? p. I18
  - A.) Briefings
  - \*B.) Radio
  - C.) Flagging
  - D.) *face-to pface*

How long should the firefighter rest during self-rehab after the second 30- to 45-minutes SCBA has been depleted? p. 136

- \*A.) 20 minutes
- B.) JO minutes
- C.) 30 minutes
- D.) 40 minutes
- 60. Which national incident typing scheme involves an incident that can be handled with local resources and without the activation of general staff positions of the JCS?
  p.157
  - \*A.) *Type 5*
  - B.) *Type 1*
  - C.) Type4
  - D.) *Type 3*
- <u>6 I.</u> What should the number of seconds between lightning flash and thunder be divided by to determine the distance the lightning is from you?
- p. 117
  - A.) 7
  - B.)4
  - C.)6
  - \*D.) 5
- <u>62.</u> What identifier should the ISO use during radio communications?
- p.152
  - A.) Control
  - \*B.) Safety
  - C.) ISO
  - D.) Your name
- **63.** Which abatement strategy includes the use of **PPE?** p. 128

- A.) Avoidance
- **B.**) Acclimation
- \*C.) Accommodation
- D.) Awareness

#### **<u>64.</u>** Which of the following has a water collection hazard? p. 108.

- \*A.) Subterranean vault
- B.) Ground l vel vault
- C.) Pad-moiimedtransformer
- **D.**) Pole-moullted transformer

### <u>65.</u> What can cause water to leach into surrounding gravel and dirt beds?

p. 113

- A.) Over application of water
- B.) Rogue sprinkler system
- C.) Flooding interior sink
- \*D.) Damaged sewer drain system

## <u>66.</u> How should the firefighter move away from the are a if tingling is felt in their boots?

p. 106

- A,.) large steps
- \*B.) Shuffling
- C.) *Heel-toe steps*
- D.) Hopping

#### <u>67.</u> What is found in large transformers?

p. 108

- \*A.) Oil
- B.) Gasoline
- C.) Kerosene
- **D.)** Grease

#### <u>68.</u> What trap has the ISO who focuses on one aspect of safety on scene fallen into?

p. 149

- A.) Helicopter parent
- \*B.) Bunker cop
- C.) CYA mode
- D.) Worker

#### <u>69.</u> Below what core body temperature does hypothermia set in? p. 130

\*A.) 95"-F (35"'C)

- 8.) 9()AF(32<sup>11</sup>C)
- C.) 94<sup>11</sup>F (34 <sup>11</sup>C)
- D.) 9211F(3311C)

## <u>70.</u> According to the cell-fueling theory, what is the optimal carbohydrate/protein/fat balance during operations? p.134

- A.) 30/40/30
- \*B.) 40/30/30
- C.) 50/25/25
- D.) 30/20/50

## **71.** What fuel is typically used to fuel the electrical generator in a locomotive?

p. 115

- \*A.) Diesel
- 8.) Propane
- C.) Ethane
- D.) Gasoline

#### 72. What helps to stabilize the carbohydrate entry rate? p. 134

- A.) Protein
- 8.) Water
- C.) Carbohydrates ·
- \*D.) *Fat*

#### 73. Which can be defined as a direct order to immediately stop activities?

p. 148

- A.) Soft intervention
- **8**.) Visible intervention
- C.) Causative intervention
- \*D.) Firm intervention

# <u>74.</u> Who is responsible for monitoring working teams, deploying safety measures, and making interventions during a type 1 or type 2 incident?

p. 158

- A.) SOFJ
- 8.) /AP
- \*C.)SOFR
- D.)ASO

#### 75. Which is probably the most used abatement strategy?

- A.) Avoidance
- B.) Accommodation
- C.) Acclimation
- \*D.) Awareness
- 76. What color diamond is used to indicate a vehicle that is powered with propane?

  p. 114
  - \*A.) Black
  - B.) Blue
  - C.) Yellow
  - D .) Green
- <u>77.</u> Which is NOT a minimum requirement for cell performance? p. 131
  - A.) Oxygen
  - \*B.) *Heat*
  - C.) Fuel
  - D.) Water
- 78. Who should make 'the judgment call about a firefighter returning to duty when in the rehab area? p. 136
  - A.) IC
  - \*B.) Paramedic
  - C.) Firefighter
  - D .) *ISO*

How many different wires arc usually wrapped into one sheath in electrical wires inside buildings? p. 110

- A .) Four
- B .) *F fre*
- \* C.) Three
- D.) Two
- 80. What property of electrical systems is based on their being grounded, insulated, and circuit protected? p. 105
  - A.) *Colltinuity*
  - B.) Strength
  - C.) Reliability
  - \*D.) Integrity
- §1. What happens when heat is applied to a pressurized system? p. 113

- A.) Pressure decreases
- 8.) Pressure stabilizes
- \*C.) Pressure increases
- D.) Pressurefluctuates
- 82. What color is used to indicate that high-voltage is used in the vehicle's drive train?
- p. 114
  - \*A.) Orange
  - B.) Yellow
  - C.) Red
  - D.) Blue
- 83. Which organization provides a chart the ISO can use to predict cold stress?
- p. 131
  - A.)NIOSH
  - B.)NFPA
  - \**C*.)*NOAA*
  - D.) OHA
- 84. What tends to lead to the CYA approach by the ISO? p. 150
  - \*A.) *L\_egal liability environment*
  - 8.) Limited trust between members
  - C.) Overexertion of firefighters
  - D.) Inadequate training
- 85. What type of power is created by the backup generator? p. 111
  - A.) UC
  - B.)AC
  - C.)PC
  - \*D.)DC
- 86. What is the primary defense mechanism to preventheat stress?
- p.128
  - \*A.) Sweating
  - B.) Consuming
  - C.) Shade
  - D.) Wind
- 87. To whose authority must the ISO yield at the incident scene?
- p. 151

- \*A.)JC
- B.) No one's
- C.) Sector commander
- D.) ASO
- 88. **What** is the most important vital sign to stabilize during rehab?
- p. 136
  - A.) Breathing rate
  - B.) Blood pressure
  - C.) Pulse rate
  - \*D.) Core temperature
- 89. Which accommodation strategy is often underutilized?
- p.128
  - \*A.) Reduce the pace
  - B.) Use of PPE
  - C.) Perform stretches
  - **D.)** *Issue warnings*
- 90. With what frequency should the ISO have face-to-face communications with the IC at routine incidents?
- p.152
  - \*A.) **15** *minutes*
  - B.) JO minutes
  - C.) 20 minutes
  - D.) 25 minutes
- **91.** What is the unit of measure for resistance of electrical current?
- p. 106
  - A.) Volt
  - B.)Amp
  - C.) Watt
  - \*D.) Ohm
- 92. How long can true recovery from an overly strenuous firefight take?
- p. 138
  - \*A.) 24 hours
  - B.) 36 hours
  - C.) 12 hours
  - D.) 48hours
- 93. What organization serves to provide leadership and support during wildland fire emergencies and other natural disasters?

p.157

\*A.)GACG

8.)NIMS

C.)NIMO

D,)JMIT

#### 94. Which is NOT a correct statement about operations when an ASO is needed'?

p. 154:

- A.) A multiagency incident which is using a unified command structure
- 8.) The incident requires input of a safety officer for an established plans section
- C.) The incident covers a large geographic area
- \*D.) The ISO should focus on committed crews when crew•risk taking is considered extreme
- .2i. Which would keep the smoke from dissipating in the outside ak'?

p. 116

- A.) Low humidity
- **8**.) Low temperatures
- C.) High temperatures
- \*D.) High humidity

## 96. Which is NOT a basic guideline for the ISO to follow when operating on the incident scene'?

p. 147

- A.) Let someone know where you are going if taking a tour
- 8.) Don't walk into, or breathe, smoke
- \*C.) Turn on the PASS if entering the fire building only
- **D.)** Always be in sight of another responder

#### 97. Which is one of the most common utility gases?

p. 112

- A.) Pentane
- 8.) Butane
- \*C.) Propane
- D.) Ethane

#### 98. **Which** communication failure likely relates to human factors or administrative control?

- A.) Not enough communication
- B.) Excessive feedback
- \*C.) Too much communication

#### **D.)** Fractured radio messages

# **99.** Which NFPA standard is referenced on the rehabilitation process for members during emergency operations and training exercises?

p. 135

- A.) NFPA 1521
- B.) NFPA 1579
- \*C.) NFPA 1584
- D.) NFPA )561

#### I $\underline{00}$ . Where does decontamination occur?

p. 119

- \*A.) Warm zone
- B.) Hot zone
- C.) No-entry zone
- D.) Cold zone

(Home][Nw Test)|Register Program][Purchase Additional Databasesl (Contact|[Credits and Copyrights]

**©Dynamic Informatio n Systems**