

**FIRE APPARATUS ENGINEER  
STUDY GUIDE**

1. What is the minimum Firescope rating of a type III fire engine pump in gallons per minute (gpm)?
  - A. 120 gpm
  - B. 500 gpm
  - C. 250 gpm
  - D. 1000 gpm
  
2. According to the Department of Motor Vehicles (DMV), during a pre-trip inspection, what is **NOT** a required item to check?
  - A. Windshield wipers
  - B. Brake lights
  - C. Steering components
  - D. Air filter
  
3. When performing vertical ventilation, it is recommended to:
  - A. Use numerous small existing roof openings
  - B. Flood a flat roof with water before ventilating
  - C. Cut one large hole rather than several small ones
  - D. Use power tools only when it appears the roof may be weak
  
4. A fire extinguisher with a class "C" rating is a \_\_\_\_\_ of electricity.
  - A. Producer
  - B. Conductor
  - C. Non-conductor
  - D. Catalyst
  
5. Where is the safest place to throw a ladder to access the roof?
  - A. Near openings
  - B. Over the seat of the fire
  - C. Near overhead obstructions
  - D. On the corners of a building
  
6. Direct/talk around/car-to-car utilizes a mobile relay (repeater).
  - A. True
  - B. False

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7. A \_\_\_\_\_ is a fire starting outside the perimeter of the main fire due to flying sparks, embers, or fire brands.
- A. Hot spot
  - B. Spot fire
  - C. Slop over
  - D. Flare up
8. Which of the following is **NOT** an appropriate fire shelter deployment site?
- A. Existing clearings
  - B. Chimneys, chutes, and steep terrain
  - C. 4x8 area or bigger
  - D. Down to mineral soil
9. What is the first thing you should do when you come across down power lines?
- A. Assume that they are energized until proven otherwise
  - B. Assume they have been de-energized by utility company
  - C. Continue fire-ground operations
  - D. Mitigate hazard yourself
10. Which of the following is **NOT** a toxic exposure route?
- A. Ingestion
  - B. Inhalation
  - C. Infection
  - D. Absorption
11. According to the California Code of Regulations (CCR) Title 8 Section 1670-Personal Fall Protection, an anchor **MUST** be capable of supporting at least 4000 lbs. per person attached to the system.
- A. True
  - B. False
12. Each agency represented under Unified Command will have its own set of incident objectives.
- A. True
  - B. False

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13. You are pumping a hand line that is flowing at a rate of 125 gallons per minute (gpm). Your tank contains 500 gallons of water. How long can you sustain that fire flow?
- A. 3 minutes
  - B. 4 minutes
  - C. 5 minutes
  - D. 6 minutes
14. According to the National Fire Protection Association (NFPA), what does the color blue represent on the 704 fixed facility hazardous material placard?
- A. Fire hazard
  - B. Specific hazard
  - C. Reactivity
  - D. Health hazard
15. According to Firescope, clear text and 10-codes should be used for all fire department communications.
- A. True
  - B. False
16. As it relates to swift water rescue, all rescuers operating within \_\_\_\_\_ feet of the water's edge must wear a personal floatation device (PFD)?
- A. 10
  - B. 20
  - C. 15
  - D. 25
17. Which of the following is **NOT** a method to control bleeding?
- A. Direct pressure
  - B. Elevate
  - C. Cold packs
  - D. Tourniquet if direct pressure and elevation do not work
18. What type of shock can you expect to see from someone who has been stung by a bee?
- A. Cardiogenic
  - B. Hemorrhagic
  - C. Anaphylactic
  - D. Neurogenic

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In this section you will be asked to identify mistakes in sentences for question 19 - 20. Look at each sentence and decide if it has a mistake in spelling, punctuation, or grammar. No sentence has more than one type of mistake. Do not count capital letters when looking for mistakes. Use the following rules to mark your answer sheet:

**If the mistake is in SPELLING, make choice (A)**

**If the mistake is in PUNCTUATION, mark choice (B)**

**If the mistake is in GRAMMAR, mark choice (C)**

**If there is NO MISTAKE, mark choice (D)**

19. This information; namely that we are reducing forces, is erroneous. **(Mark A, B, C or D)**
20. Let's don't forget that we are working together. **(Mark A, B, C or D)**

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**ANSWER SHEET**

1. A
2. D
3. C
4. C
5. D
6. B
7. B
8. B
9. A
10. C
11. B
12. B
13. B
14. D
15. B
16. A
17. C
18. C
19. B
20. C