

Easy

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Gujarat Public Service Commission / Assistant Engineer (Electrical)

Regarding Fire Alarm Systems, consider the following:

- 1. Addressable fire alarm systems can pinpoint the exact location of the triggered detector.**
- 2. Ionization smoke**

A

1 and 2 only

B

2 and 3 only

C

1 and 3 only

Correct

D

1, 2 and 3

Correct Answer: C

Full Detailed Explanation

Correct Answer: C - 1 and 3 only

Quick Concept Explanation Addressable fire-alarm systems assign an identity/address to each detector or module, enabling the panel to locate the initiating device. Kitchens are prone to nuisance alarms from cooking aerosols, so detector selection is application-specific and heat detection is often preferred over a sensitive ionization smoke detector.

Exam focus: Choose detector type for the environment, not just sensitivity. Common trap: Ionization smoke detectors are not generally the preferred kitchen solution for avoiding false alarms.

Statement-wise Verification

Statement 1 - Correct. Addressable fire alarm systems can pinpoint the exact location of the triggered detector.

Statement 2 - Incorrect. Ionization smoke detectors are generally preferred for kitchen areas to avoid false alarms. The correct principle is: Kitchens are prone to nuisance alarms from cooking aerosols, so detector selection is application-specific and heat detection is often preferred over a sensitive ionization smoke detector.

Statement 3 - Correct. Manual call points (MCPs) allow occupants to manually initiate a fire alarm. Manual call points provide deliberate human initiation.

Core Concept Addressable fire-alarm systems assign an identity/address to each