

Easy

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Gujarat Public Service Commission / Assistant Engineer (Electrical)

Consider the following statements regarding Motor Control Centers (MCCs):

- 1. An MCC consists of multiple feeders, each containing a motor starter and protection.**
- 2.**

A

All of the above

B

2 and 3 only

C

1 and 3 only

D

1 and 2 only

Correct

Correct Answer: D

Full Detailed Explanation

Correct Answer: D - 1 and 2 only

Quick Concept Explanation A motor control center groups multiple motor feeders in a common assembly, typically with starters/contactors, protection, isolation and control. Draw-out or withdrawable modules can allow a feeder to be isolated and serviced while other sections remain energized, subject to the panel design and safety procedure.

Exam focus: MCC is an organized multi-motor distribution/control assembly. Common trap: Do not restrict modern MCCs to DC motors.

Statement-wise Verification

Statement 1 - Correct. An MCC consists of multiple feeders, each containing a motor starter and protection. A motor control center groups multiple motor feeders in a common assembly, typically with starters/contactors, protection, isolation and control.

Statement 2 - Correct. "Draw-out" type modules allow for maintenance without shutting down the entire panel. Draw-out or withdrawable modules can allow a feeder to be isolated and serviced while other sections remain energized, subject to the panel design and safety procedure.

Statement 3 - Incorrect. MCCs are only designed to handle DC motors in modern industries. MCCs are widely used with AC induction/synchronous motors as well as other motor types.

Core Concept A motor control center groups multiple motor feeders in a common assembly, typically with starters/contactors