

Moderate

Assistant Engineer (Electrical), Class 2025

Building Department

Which of these error-detecting codes enables to find double errors in Digital Electronic devices?

A

Parity method

B

Checksum method

Correct

C

Bit generation method

D

Odd-Even method

Correct Answer: B

Full Detailed Explanation

Concept & Reasoning Error-detecting schemes differ in capability. Single parity adds only one redundant bit; flipping two bits can preserve the original parity, so double-error detection is not guaranteed. A checksum combines blocks of data and compares a computed check value at the receiver, giving broader error-detection capability than simple parity in the context of the given options. How to Solve It in the Exam If the question contrasts parity with checksum for multiple errors, parity is the weaker choice. Important Exam Point Distinguish 'can detect some double errors' from 'guarantees detection of every double error'; the wording of coding questions matters. Related Revision Path This question sits in the revision path Digital Electronics Digital Codes Error Detection .

Open live question on website:

<https://sarkariresultout.com/pyq/question/gpsc-ae-electrical-q153-checksum-error-detection/>