

Easy

Assistant Engineer (Electrical), Class 2025

Building Department

The complete software system is divided into

A

Main program

B

Interrupt routine IRT2 for first subprocessing the unit

C

Interrupt routine IRT3 for first subprocessing the unit

D

All of the mentioned**Correct**

Correct Answer: D

Full Detailed Explanation

Concept & Reasoning The main program performs background/control tasks, while interrupt routines execute asynchronously in response to events. Good embedded design keeps ISRs bounded, saves/restores context correctly and coordinates shared state with the main program.

How to Solve It in the Exam Complete interrupt-driven system = main loop + interrupt routines.

Important Exam Point Treat each ISR as part of the overall software architecture, not a separate system.

Related Revision Path This question sits in the revision path Microprocessors and Interfacing Real-Time Software Interrupt-Driven Systems .

Open live question on website:

<https://sarkariresultout.com/pyq/question/gpsc-ae-electrical-q222-main-program-and-interrupt-routines/>