1.   When using backward hooks, what kind of information can they provide in a CNN?   **1 point**

   ◉ Gradients of activations with respect to the loss

   ○ The number of epochs completed

   ○ The learning rate used at each step

   ○ The total number of layers in the network

2.   What is a key advantage of using hooks for debugging CNNs?   **1 point**

   ◉ They allow for real-time inspection without halting training

   ○ They automatically correct errors in the network

   ○ They replace the need for a validation dataset

   ○ They reduce the computational cost of training

3.   Which tool can be used to test and monitor a deployed cloud function for user input predictions?   **1 point**

   ◉ Postman

   ○ TensorBoard

   ○ SQLite

   ○ Jupyter Notebook

4.   What is the primary purpose of using Flask in developing a REST API?   **1 point**

   ◉ To handle HTTP requests and define endpoints for the API

   ○ To store data in a relational database

   ○ To train machine learning models

   ○ To perform data visualization

5.   What is the benefit of using Google Cloud Functions for deploying a REST API?   **1 point**

   ◉ Automatic scaling based on the number of requests

   ○ Enhanced data visualization capabilities

   ○ Better relational database management

   ○ Improved machine learning model training