Question#1:

- a) Why is it important to use wp_enqueue_script() and wp_enqueue_style() in a WordPress plugin instead of hardcoding scripts/styles directly? Also, write a PHP snippet showing how to enqueue a custom JavaScript file with jQuery as a dependency.
- b) Explain the role of wp_localize_script() in WordPress plugin development. Write a PHP snippet to pass an AJAX URL and a nonce to your enqueued script using wp_localize_script().

Question#2:

Explain how to register a Custom Post Type (CPT) in a WordPress plugin. Provide a code example and briefly describe the purpose of each key parameter used in the register_post_type() function.

Question#3:

How do Cross-Site Scripting (XSS) attacks affect WordPress plugins, and what are two effective ways developers can prevent them?

Question#4:

Explain the role of the form() and update() methods in a custom WordPress widget created by extending the WP_Widget class. Provide a code example to illustrate how these methods handle user inputs and save widget settings.

Question#5:

What strategies can help in successfully selling a WordPress plugin in a competitive market, and how do pricing, marketing, and support contribute to user retention?

Question#6:

- a. Describe the role of the wp_posts and wp_postmeta tables in WordPress. How do they store and manage post content and metadata?
- b. Explain how WordPress uses the wp_terms, wp_term_taxonomy, and wp term relationships tables to handle categories and tags for posts.

Question#7

What are the common security vulnerabilities found in WordPress plugins, and how can these vulnerabilities be exploited to compromise a website?

Question#8

You are developing a WordPress plugin and need to create a shortcode that displays a custom message.

The shortcode should accept two attributes:

- 1. message the content to be displayed.
- 2. bg_color to set the background color of the message box. The background color should default to light gray if not provided. The message text should also be customizable, with a default of "Hello, World!" if no message is provided.
- a. Write a PHP function to create a shortcode [custom_message] that displays a custom message passed through the message attribute. The default message should be "Hello, World!".
- b. Modify the function from Part 1 to accept an additional bg_color attribute. This attribute will change the background color of the message box. The default background color should be light gray.

Question#9

Describe how AJAX is implemented in a WordPress plugin to perform live blog search with category filtering. Include the roles of JavaScript, admin-ajax.php, and PHP callbacks in your explanation.

Question#10

What is the purpose of action hooks in WordPress plugin development? Give a brief explanation with an example of how they can be used.