Certainly! Here are 10 multiple-choice questions (MCQs) with answers for each of the following chapters from *Beginning PHP and MySQL: From Novice to Professional, Fifth Edition* by Frank M. Kromann:

**Chapter 11: Third-Party Libraries**

1. **What is Composer in PHP?**
   * A) A PHP framework
   * B) A package manager for PHP
   * C) A database management tool
   * D) A code editor
   * **Answer:** B) A package manager for PHP
2. **Which file does Composer use to manage project dependencies?**
   * A) composer.lock
   * B) package.json
   * C) composer.json
   * D) dependencies.xml
   * **Answer:** C) composer.json
3. **What command is used to install dependencies listed in composer.json?**
   * A) php install
   * B) composer update
   * C) composer install
   * D) php composer install
   * **Answer:** C) composer install
4. **How do you add a new package using Composer?**
   * A) composer add package-name
   * B) composer require package-name
   * C) composer install package-name
   * D) composer get package-name
   * **Answer:** B) composer require package-name
5. **Which of the following is a popular PHP logging library available via Composer?**
   * A) Log4PHP
   * B) Monolog
   * C) PHPLogger
   * D) LogMaster
   * **Answer:** B) Monolog
6. **What is Packagist?**
   * A) A PHP framework
   * B) A repository of PHP packages
   * C) A code editor
   * D) A database
   * **Answer:** B) A repository of PHP packages
7. **Which command updates all dependencies to the latest version according to composer.json?**
   * A) composer upgrade
   * B) composer update
   * C) composer refresh
   * D) composer install
   * **Answer:** B) composer update
8. **What does the caret (^) symbol signify in versioning within composer.json?**
   * A) Any version
   * B) Exact version
   * C) Compatible version updates
   * D) Major version updates only
   * **Answer:** C) Compatible version updates
9. **Which file locks the versions of dependencies to ensure consistency across installations?**
   * A) composer.json
   * B) composer.lock
   * C) package.lock
   * D) dependencies.lock
   * **Answer:** B) composer.lock
10. **How can you remove a package using Composer?**
    * A) composer delete package-name
    * B) composer remove package-name
    * C) composer uninstall package-name
    * D) composer erase package-name
    * **Answer:** B) composer remove package-name

**Chapter 13: Forms**

1. **Which PHP superglobal is used to collect form data sent with the POST method?**
   * A) $\_GET
   * B) $\_POST
   * C) $\_FORM
   * D) $\_REQUEST
   * **Answer:** B) $\_POST
2. **What attribute specifies where to send the form data upon submission?**
   * A) method
   * B) action
   * C) enctype
   * D) target
   * **Answer:** B) action
3. **Which HTML tag is used to create a form in HTML?**
   * A)
   * B)
   * C)
   * D)
   * **Answer:** A)
4. **What does the 'enctype' attribute in a form specify?**
   * A) The character encoding
   * B) The form submission method
   * C) The data encoding type for the form
   * D) The target window for the response
   * **Answer:** C) The data encoding type for the form
5. **Which method is more secure for transmitting sensitive data?**
   * A) GET
   * B) POST
   * C) REQUEST
   * D) SESSION
   * **Answer:** B) POST
6. **How can you prevent Cross-Site Request Forgery (CSRF) attacks in forms?**
   * A) Use GET method
   * B) Use CAPTCHA
   * C) Implement CSRF tokens
   * D) Use cookies
   * **Answer:** C) Implement CSRF tokens
7. **Which PHP function is used to validate an email address?**
   * A) validate\_email()
   * B) check\_email()
   * C) filter\_var()
   * D) is\_email()
   * **Answer:** C) filter\_var()
8. **What is the default method for form submission if not specified?**
   * A) GET
   * B) POST
   * C) REQUEST
   * D) None
   * **Answer:** A) GET
9. **Which input type is used for password fields in HTML forms?**
   * A) text
   * B) password
   * C) hidden
   * D) secure
   * **Answer:** B) password
10. **How can you retain form data after submission in PHP?**
    * A) Using cookies
    * B) Using sessions
    * C) Re-populating form fields with PHP variables
    * D) All of the above
    * **Answer:** D) All of the above

**Chapter 14: Authenticating Your Users**

1. **Which PHP function is used to start a session?**
   * A) session\_begin()
   * B) session\_start()
   * C) start\_session()
   * D) init\_session()
   * **Answer:** B) session\_start()
2. **What is the purpose of hashing passwords?**
   * A) To encrypt them
   * B) To store them in plain text
   * C) To compare them easily
   * D) To secure them against unauthorized access
   * **Answer:** D) To secure them against unauthorized access
3. **Which function is used to hash passwords in PHP?**
   * A) md5()
   * B) sha1()
   * C) password\_hash()
   * D) crypt()
   * **Answer:** C) password\_hash()
4. **Which function verifies a password against a hash?**
   * A) password\_verify()
   * B) hash\_verify()
   * C) verify\_password()
   * D) check\_password()
   * **Answer:** A) password\_verify()
5. **What is a common method to prevent session hijacking?**
   * A) Using cookies
   * B) Regenerating session IDs
   * C) Using GET method
   * D) Storing session data in database
   * **Answer:** B) Regenerating session IDs
6. **Which superglobal is used to store session variables?**
   * A) $\_SESSION
   * B) $\_COOKIE
   * C) $\_SERVER
   * D) $\_POST
   * **Answer:** A) $\_SESSION
7. **What is the purpose of the 'remember me' functionality?**
   * A) To remember user preferences
   * B) To keep users logged in across sessions
   * C) To store passwords
   * D) To auto-fill forms
   * **Answer:** B) To keep users logged in across sessions
8. **Which HTTP status code indicates unauthorized access?**
   * A) 200
   * B) 301
   * C) 401
   * D) 404
   * **Answer:** C) 401
9. **What is the risk of storing passwords in plain text?**
   * A) No risk
   * B) They can be easily read if the database is compromised
   * C) They take up more space
   * D) They are harder to compare
   * **Answer:** B) They can be easily read if the database is compromised
10. **Which PHP function destroys all data registered to a session?**
    * A) session\_destroy()
    * B) session\_unset()
    * C) session\_end()
    * D) session\_delete()
    * **Answer:** A) session\_destroy()

**Chapter 15: Handling File Uploads**

1. **Which HTML attribute is necessary for file uploads?**
   * A) enctype="multipart/form-data"
   * B) method="get"
   * C) action="upload.php"
   * D) type="file"
   * **Answer:** A) enctype="multipart/form-data"
2. **Which PHP superglobal is used to access uploaded files?**
   * A) $\_FILES
   * B) $\_POST
   * C) $\_UPLOAD
   * D) $\_REQUEST
   * **Answer:** A) $\_FILES
3. **What function moves an uploaded file to a new location?**
   * A) move\_uploaded\_file()
   * B) copy\_file()
   * C) upload\_file()
   * D) file\_move()
   * **Answer:** A) move\_uploaded\_file()
4. **Which function checks if a file was uploaded via HTTP POST?**
   * A) is\_uploaded\_file()
   * B) file\_uploaded()
   * C) check\_upload()
   * D) upload\_check()
   * **Answer:** A) is\_uploaded\_file()
5. **What is the risk of not validating uploaded file types?**
   * A) No risk
   * B) Users can upload malicious files
   * C) Files may not upload
   * D) Files may be corrupted
   * **Answer:** B) Users can upload malicious files
6. **Which PHP directive limits the maximum size of an uploaded file?**
   * A) upload\_max\_filesize
   * B) max\_upload\_size
   * C) file\_upload\_limit
   * D) max\_file\_size
   * **Answer:** A) upload\_max\_filesize
7. **How can you restrict file uploads to images only?**
   * A) Check file extension
   * B) Check MIME type
   * C) Use getimagesize()
   * D) All of the above
   * **Answer:** D) All of the above
8. **Which function returns information about an image?**
   * A) getimagesize()
   * B) imageinfo()
   * C) fileinfo()
   * D) get\_image\_info()
   * **Answer:** A) getimagesize()
9. **What is a common directory to store uploaded files?**
   * A) /uploads
   * B) /files
   * C) /images
   * D)

**Chapter 17: Session Handlers**

1. **What is the purpose of custom session handlers in PHP?**
   * A) To change session variable names
   * B) To store session data in a custom storage mechanism
   * C) To encrypt session data
   * D) To manage user authentication
   * **Answer:** B) To store session data in a custom storage mechanism
2. **Which function is used to set custom session save handlers?**
   * A) session\_set\_save\_handler()
   * B) set\_session\_handler()
   * C) session\_handler\_set()
   * D) session\_save\_handler()
   * **Answer:** A) session\_set\_save\_handler()
3. **Which of the following is NOT a method required by a custom session handler class?**
   * A) open()
   * B) read()
   * C) write()
   * D) execute()
   * **Answer:** D) execute()
4. **What is the return type expected from the read() method in a custom session handler?**
   * A) Integer
   * B) Boolean
   * C) String
   * D) Array
   * **Answer:** C) String
5. **Which method is responsible for cleaning up old sessions in a custom session handler?**
   * A) gc()
   * B) clean()
   * C) destroy()
   * D) close()
   * **Answer:** A) gc()
6. **What is the purpose of the write() method in a custom session handler?**
   * A) To read session data
   * B) To write session data to storage
   * C) To delete session data
   * D) To open a session
   * **Answer:** B) To write session data to storage
7. **Which PHP interface can be implemented for custom session handling?**
   * A) SessionHandlerInterface
   * B) CustomSessionInterface
   * C) SessionInterface
   * D) HandlerInterface
   * **Answer:** A) SessionHandlerInterface
8. **What does the open() method typically do in a custom session handler?**
   * A) Initializes resources for session storage
   * B) Opens a file for writing
   * C) Starts a new session
   * D) Validates session data
   * **Answer:** A) Initializes resources for session storage
9. **Which method is called when a session is destroyed?**
   * A) destroy()
   * B) delete()
   * C) close()
   * D) end()
   * **Answer:** A) destroy()
10. **What is the purpose of the close() method in a custom session handler?**
    * A) To close the session write stream
    * B) To close the session read stream
    * C) To release resources associated with the session
    * D) All of the above
    * **Answer:** D) All of the above

**Chapter 18: Web Services**

1. **What is a web service?**
   * A) A website
   * B) A method of communication between two devices over the web
   * C) A web browser
   * D) A web server
   * **Answer:** B) A method of communication between two devices over the web
2. **Which protocol is commonly used for web services?**
   * A) FTP
   * B) SMTP
   * C) HTTP
   * D) SSH
   * **Answer:** C) HTTP
3. **What does REST stand for?**
   * A) Representational State Transfer
   * B) Remote Execution Standard Technique
   * C) Random Execution of Service Transactions
   * D) None of the above
   * **Answer:** A) Representational State Transfer
4. **Which HTTP method is typically used to retrieve data in a RESTful service?**
   * A) POST
   * B) GET
   * C) PUT
   * D) DELETE
   * **Answer:** B) GET
5. **Which HTTP method is used to create new resources in RESTful services?**
   * A) GET
   * B) POST
   * C) PUT
   * D) DELETE
   * **Answer:** B) POST
6. **What is JSON?**
   * A) A programming language
   * B) A database
   * C) A lightweight data-interchange format
   * D) A web server
   * **Answer:** C) A lightweight data-interchange format
7. **Which PHP function is used to decode a JSON string?**
   * A) json\_decode()
   * B) json\_encode()
   * C) decode\_json()
   * D) parse\_json()
   * **Answer:** A) json\_decode()
8. **What is the purpose of the Content-Type header in HTTP?**
   * A) To specify the size of the content
   * B) To specify the type of content being sent
   * C) To specify the server type
   * D) To specify the request method
   * **Answer:** B) To specify the type of content being sent
9. **Which PHP extension is commonly used to make HTTP requests?**
   * A) cURL
   * B) PDO
   * C) GD
   * D) mysqli
   * **Answer:** A) cURL
10. **What does SOAP stand for in web services?**
    * A) Simple Object Access Protocol
    * B) Secure Object Access Protocol
    * C) Simple Online Access Protocol
    * D) None of the above
    * **Answer:** A) Simple Object Access Protocol

**Chapter 19: Secure PHP Programming**

1. **What is SQL injection?**
   * A) A method to optimize SQL queries
   * B) A technique to secure databases
   * C) An attack that allows execution of malicious SQL statements
   * D) A way to backup databases
   * **Answer:** C) An attack that allows execution of malicious SQL statements
2. **Which function is used to prevent SQL injection in PHP?**
   * A) mysqli\_query()
   * B) mysqli\_real\_escape\_string()
   * C) mysql\_query()
   * D) escape\_string()
   * **Answer:** B) mysqli\_real\_escape\_string()
3. **What is Cross-Site Scripting (XSS)?**
   * A) A method to style web pages
   * B) A security vulnerability that allows injection of malicious scripts
   * C) A way to compress web content
   * D) A technique to improve SEO
   * **Answer:** B) A security vulnerability that allows injection of malicious scripts
4. **Which function can help prevent XSS attacks?**
   * A) htmlspecialchars()
   * B) htmlentities()
   * C) strip\_tags()
   * D) All of the above
   * **Answer:** D) All of the above
5. **What is the purpose of using prepared statements in PHP?**
   * A) To speed up query execution
   * B) To prevent SQL injection
   * C) To format SQL queries
   * D) To cache SQL results
   * **Answer:** B) To prevent SQL injection
6. **Which PHP function is used to hash passwords securely?**
   * A) md5()
   * B) sha1()
   * C) password\_hash()
   * D) crypt()
   * **Answer:** C) password\_hash()
7. **What is the recommended way to store passwords in a database?**
   * A) Plain text
   * B) Encrypted with a reversible algorithm
   * C) Hashed with a secure algorithm
   * D) Base64 encoded
   * **Answer:** C) Hashed with a secure algorithm
8. **What is CSRF?**
   * A) Cross-Site Request Forgery
   * B) Cross-Site Resource Fetching
   * C) Client-Side Resource Function
   * D) None of the above
   * **Answer:** A) Cross-Site Request Forgery
9. **How can you prevent CSRF attacks?**
   * A) Use HTTPS
   * B) Validate user input
   * C) Implement CSRF tokens in forms
   * D) Use cookies
   * **Answer:** C) Implement CSRF tokens in forms
10. **What does the 'secure' flag in cookies do?**
    * A) Encrypts the cookie
    * B) Ensures the cookie is sent over HTTPS only
    * C) Makes the cookie accessible via JavaScript
    * D) Sets the cookie to expire immediately
    * **Answer:** B) Ensures the cookie is sent over HTTPS only