

DSE-B-4
(Advanced Java)
Full Marks : 50

Answer *question no. 1* and *any four* from the rest.

1. Answer *any five* questions : 2×5
- (a) Compare Servlet and JSP.
 - (b) What is the purpose of AutoFlush() method?
 - (c) State two advantages of factory design pattern.
 - (d) How attr() method works for jQuery?
 - (e) Discuss the NaN property in Javascript.
 - (f) Explain the typeof operator in Javascript.
 - (g) Which one is more useful between POST and GET?
 - (h) Write down the advantages of MVC architecture.
2. (a) List three characteristics that should be supported by server side scripting tools.
- (b) Write a JSP scriptlet that displays the resultant sum of the numbers between start to end which are received as browser input. You must use loop for this purpose. Say, start = 10 and end = 15, then it should display 75 as output.
- (c) Write down the purpose of errorpage attribute in JSP. 4+4+2
3. (a) Describe the lifecycle of Servlet.
- (b) Explain different jQuery selectors with example.
- (c) State the features of spring framework. 3+4+3
4. (a) Explain the steps of JSP page processing with the help of a diagram.
- (b) Explain with the help of .JSP script, how session object can be used to create a session.
- (c) Write down the difference between JSP include directive and JSP include action. 3+4+3
5. (a) Why is cookie required in session management?
- (b) Why is destruction of a session essential?
- (c) Discuss in brief different methods used for session tracking. 2+2+6

6. (a) Name different MIME types. How it can be set in document using JSP?
(b) Write code snippet in jQuery that incorporate toggleClass() method. (2+4)+4
7. (a) State the purpose and syntax of the following methods with suitable example :
(i) jQuery dblclick(), (ii) reverse(), (iii) getParameter(), (iv) get_cookies().
(b) Distinguish between Application server and Web server. (2+2+2+2)+2
8. Write short notes on (*any two*) : 5+5
- (a) Front Controller design pattern
 - (b) Exception handling in JSP
 - (c) Spring ORM framework
 - (d) DAO and DTO.
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