



# UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Fourth Semester – 2019

Paper: Web Engineering

Course Code: IT-205 / IT-22405 Part – I (Compulsory)

Time: 15 Min. Marks: 10

Roll No. in Fig. ....

Roll No. in Words. ....

Signature of Supdt.: .....

**ATTEMPT THIS PAPER ON THIS QUESTION SHEET ONLY.**

**Division of marks is given in front of each question.**

**This Paper will be collected back after expiry of time limit mentioned above.**

**Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)**

1. Cascading Style Sheets stands for \_\_\_\_\_.
  - a. CASS
  - b. CSTS
  - c. CSS
  - d. CSSH
  
2. If contents of a website does not change along with the user input then such a website is known as \_\_\_\_\_.
  - a. Static Website
  - b. Dynamic Website
  - c. No such website exists
  - d. None of these
  
3. On pressing OK button, prompt box returns \_\_\_\_\_ value.
  - a. message written in text box
  - b. null
  - c. Both a and b
  - d. Either a or b
  - e. Neither a nor b
  
4. AJAX stands for \_\_\_\_\_.
  - a. Asynchronous Java And XML
  - b. Autonomous JavaScript And XML
  - c. Asynchronous JavaScript And XML
  - d. None of these
  
5. \_\_\_\_\_ function of a servlet will be called only 1 time in a life cycle of servlet.
  - a. INIT
  - b. Service
  - c. Destroy
  - d. Both a and b
  - e. Both a and c
  - f. Both b and c
  - g. None of the above

P.T.O.

6. In N-Tier architecture, which layer is present at the bottom?
- Presentation / View Layer
  - Business Logic Layer
  - Data Access Layer
  - None of these
7. How many layers are present in N-Tier Architecture?
- 1
  - 3
  - 5
  - It can be any number
8. If we use \_\_\_\_\_ method technique, then the data will be sent through the URL of the request.
- get
  - post
  - Both a and b
  - Either a or b
  - Neither a nor b
9. Sessions are stored on \_\_\_\_\_ side/s.
- Client
  - Server
  - Both a & b
  - None of these
10. In a JSP page, all code other than service method is written in \_\_\_\_\_ tag.
- JSP Declaration
  - JSP Scriptlet
  - JSP Expression
  - None of these



**ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED**

**Question # 2.**

**[2 x 10 = 20 Marks]**

**Precisely write down the answers of the following questions.**

1. What is the difference between WWW and internet?
2. What is meant by Send Redirection?
3. What is a difference between static and dynamic website?
4. Write down a life cycle of java servlets.
5. In CSS, how can we apply style to the components?
6. What does HTML and JSP stands for?
7. What is meant by Client-side scripting language?
8. What is meant by AJAX?
9. What are the components of a HTTP Response?
10. What is the difference between N-Tier Architecture and MVC?

**Question # 3.**

**[3 x 10 = 30 Marks]**

**Briefly write down the answers of the following questions.**

1.
  - a. What are the advantages of cookies and session handling? Also explain that which technique is more preferable according to different scenarios. [5]
  - b. Write down the differences between get and post methods for sending a request to server. [5]
2. Write a servlet class which will dynamically create an ordered list with name and capital city of the countries stored in the database.  
Table contains two columns (Country Name, Country Capital City).  
*DB Name: Database*  
*Table name: Country(name(varChar(50)), capital\_City(varChar(50)))*
3. Write a JSP page, which will dynamically create a drop down list with all smartphones along with their company saved in data base.  
*DB Name: Database*  
*Table name: Smartphone(model (varChar(15)), company(varChar(15)))*