

12th

Computer Applications

Chapter 7

To

Chapter 11

2024 - 2025

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1 Marks

7. LOOPS IN PHP

1. Which of the following is NOT a type of loop statement in PHP?
 a) for **b) if ... else** c) while d) do ... while
2. What type of loop is “for loop” in PHP?
 a) **Entry-Check Loop** b) Exit-Check Loop
 c) Counter Loop d) Iteration Loop
3. What is the syntax for for loop in PHP?
 a) **for(initialization; condition; increment) { //code}**
 b) foreach(initialization; condition; decrement) { // code}
 c) while(condition)
 d) do {...} while(condition)
4. What are the three parts of the for loop syntax in PHP?
 a) **initialization, condition, increment**
 b) initialization, code block, condition
 c) code block, condition, increment
 d) condition, initialization, code block
5. When is the “initialization” part of a for loop executed?
 a) Before each iteration
 b) After each iteration
 c) **Only once at the beginning of the loop**
 d) Only once at the end of the loop
6. What is the purpose of the „increment“ part of a for loop?
 a) To initialize variables **b) To update variables**
 c) To check the condition d) To execute the code block
7. What type of loop is “while loop” in PHP?
 a) **Entry-Check Loop** b) Exit-Check Loop
 c) Counter Loop d) Iteration Loop
8. What type of loop is “do...while loop” in PHP?
 a) Entry-Check Loop **b) Exit-Check Loop**
 c) Counter Loop d) Iteration Loop
9. Which looping structure should be used to iterate over elements of an array in PHP? - Mar 2022
 a) for loop b) while loop c) do...while loop **d) foreach loop**
10. What is the output of the following code?

```
$array=array(1,2,3,4,5);
foreach($array as $value)
{
echo $value;
}
```

 a) **1 2 3 4 5** b) 5 4 3 2 1 c) 1 1 1 1 1 d) None of the above

2 Marks**1. What is the purpose of a loop in PHP?**

A loop is a control structure. It executes a set of instructions (a block of code) repeatedly for a certain number of times or until a certain condition is met.

2. Write the syntax for an for loop in PHP.**Syntax**

```
for ( initialization; condition; increment/decrement)
{
    // code to be executed;
}
```

3. Write the syntax for while loop in PHP**Syntax**

```
while (condition)
{
    // code to be executed;
}
```

4. How is the condition in a while loop evaluated?

The condition is evaluated at the beginning of each iteration of the loop. If it is **true** , the code block is executed. If it is **false**, the loop is terminated.

5. What is the output of the following code snippet?

```
$i=1;
while($i<=5)
{
    echo $i. "<br>";
    $i++;
}
```

Output

1
2
3
4
5

3 Marks

1. Describe the three parts of a for loop in PHP (initialization, condition and increment) and explain their purpose.

The **initialization** part is executed only once at the beginning of the loop. It is used to **initialize variables**. The **condition** is evaluated before each iteration of the loop. If it is **true**, the code block is executed. If it is **false**, the loop is terminated. The **increment /decrement** part is executed after each iteration of the loop. It is used to **update variables**.

2. Write a PHP code to print 1 to 10 numbers in ascending order using for loop.

PHP Code

```
for ($i=1; $i<=10; $i++)
{
    echo $i. "<br>";
}
```

Output

1
2
3
4
5
6
7
8
9
10

Mar 2024 (2M)

3. Explain the difference between while loop and do... while loop in PHP.

while loop	do...while loop
while loop is called as the entry-check loop	do...while loop is called as the exit-check loop
It is used to execute a block of code while a certain condition is true .	The code block is always executed at least once, even if the condition is false .
The condition is evaluated at the beginning of each iteration of the loop.	The condition is evaluated at the end of each iteration of the loop.

5 Marks

1. Explain for loop with example. – Mar 2024

for loop

for loop is called as the entry-check loop. The for loop is used to execute a block of code a specific number of times.

Syntax

```
for ( initialization ; condition ; increment/decrement )
{
    // code to be executed;
}
```

The **initialization** part is executed only once at the beginning of the loop. It is used to **initialize variables**. The **condition** is evaluated before each iteration of the loop. If it is **true**, the code block is executed. If it is **false**, the loop is terminated. The **increment /decrement** part is executed after each iteration of the loop. It is used to **update variables**.

Example 1

To print the numbers from 1 to 5 in **ascending order**

```
for ($i=1; $i<=5; $i++)
{
    echo $i. "<br>";
}
```

Output

```
1
2
3
4
5
```

Example 2

To print the numbers from 5 to 1 in **descending order -Mar 2024 (1M)**

```
for ($i=5; $i>=1; $i- -)
{
    echo $i. "<br>";
}
```

Output

```
5
4
3
2
1
```

2. Write a PHP code to print 10 to 20 numbers in ascending order using while loop and do...while loop.

while loop	do...while loop
<p><u>PHP code</u></p> <pre> \$i=10; while (\$i<=20) { echo \$i. "
"; \$i++; } </pre> <p><u>Output</u></p> <p>10 11 12 13 14 15 16 17 18 19 20</p>	<p><u>PHP code</u></p> <pre> \$i=10; do { echo \$i. "
"; \$i++; } while(\$i<=20); </pre> <p><u>Output</u></p> <p>10 11 12 13 14 15 16 17 18 19 20</p>

3. Explain foreach loop with examples. – Mar 2020

foreach loop 1

The foreach loop is used to iterate over elements of an **array**.

Syntax

```
foreach($array as $value)
{
    // code to be executed;
}
```

Example:

To print the elements of an array.

```
array = array(1,2,3,4,5);
foreach ($array as $value)
{
    echo $value. "<br>";
}
```

Output

```
1
2
3
4
5
```

foreach loop 2

The foreach loop to iterate over the **keys and values** of an associative array.

Syntax

```
foreach ($array as $key => $value)
{
    // code to be executed;
}
```

Example – Mar 2024 3M (compulsory) a=10 ,b=20, c=30

```
$array = array("a" => 1, "b" => 2, "c" => 3);
foreach ($array as $key => $value)
{
    echo $key. "=>" . $value. "<br>";
}
```

Output

```
a=>1
b=>2
c=>3
```

The foreach loop is particularly useful in the way. It is a simple and efficient way to iterate over arrays in PHP.

8. FORMS AND FILES**1 Marks**

1. What are HTML forms used for?

- a) To collect input from users b) To create server-side programming language
c) To create a database d) To send emails

2. Which of the following is NOT a form control available in HTML forms?

- a) Text inputs b) Buttons c) Checkboxes **d) Cropping Tool**

3. Which tag is used to create an HTML form?

- a) form b) input c) textarea d) select

4. What form control allows the user to select multiple values?

- a) text inputs b) buttons **c) checkboxes** d) radio buttons

5. What form control allows the user to select only one value at a time? -Mar23

- a) text inputs b) buttons c) checkboxes **d) radio buttons**

6. What is the purpose of validation in PHP?

- a) **To check the input data submitted by the user from the client machine**
b) To display data to users
c) To store data on the server
d) To send data to the client

7. How many types of validation are available in PHP?

- a) One **b) Two** c) Three d) Four

8. Which PHP function can be used to open a file?

- a) fopen()** b) fread() c) fclose() d) fwrite()

9. What PHP function can be used to read a file?

- a) fopen() **b) fread()** c) fclose() d) fwrite()

10. What PHP function can be used to close a file?

- a) fopen() b) fread() **c) fclose()** d) fwrite()

2 Marks

1. What is the main objective of PHP and HTML form controls?

Main objective of PHP and HTML form controls are to collect data from users.

2. What are the basic HTML form controls available?

- Text inputs
- Buttons
- Checkbox
- Radio box
- File Select
- Form Tag

3. How are data collected via HTML form controls sent to the server?

HTML form controls like Textbox, dropdown box and radio button etc., and sent to server using server side programming like PHP.

4. What is Validation in PHP? – Mar 2023

Validation is a process of checking the input data submitted by the user from client machine.

5. What are the two types of validation available in PHP?

- Client Side Validation
- Server Side Validation

3 Marks

Mar 2022

1. Explain the difference between checkbox and radio button in HTML forms.

Check box	Radio button
Check box is a important feature which selects more than one value from the HTML form.	Radio box is similar to checkbox but one value can be chosen at a time.
Must be checkable minimum one value	Must be selectable minimum one value

2. Explain the difference between the POST method and GET method of sending data to the server in PHP.

Post Method	Get Method
The input data sent to the server with POST method is stored in the request body of the client's HTTP request .	The input data sent the server with POST method via URL address is known as query string. All input data are visible by user after they click the submit button.

3. What are the different file handling tasks that can be performed using PHP? – Mar 2023

File handling is an important activity of all web application development process.

- PHP Open a File,
- PHP Read a File,
- PHP Close a File,
- PHP write a File,
- PHP Appending a File
- PHP uploading a File.

5 Marks

1. Discuss in detail about HTML form controls.

Text inputs	Text inputs contain textbox and text area controls.
Buttons	Buttons may contain Submit button, Reset button and Cancel Button.
Checkbox	Checkbox is a important feature which selects more than one value from the HTML form.
Radio box	Radio box is similar to check box but one value can be chosen at a time.
File select	File select is the best feature to select one file from the local machine to server machine at a time.
Form tag	Form tag is used to mention a method (POST or GET) and control the entire form controls in the HTML document

2. Explain in detail of File handling functions in PHP. – Mar 2020

File handling is an important activity of all web application development process.

- PHP Open a File,
- PHP Read a File,
- PHP Close a File,
- PHP write a File,
- PHP Appending a File
- PHP uploading a File.

PHP Open a File

fopen() – To open a file in the server. The file should be opened (Read/Write).

Syntax – Mar 2024 Compulsory Qn 2M

`$file_Object=fopen(“FileName”, “Read/WriteMode”) or die (“Error Message!”);`

Example

```
<?php
$file=file_fopen(“Student.txt”, “r”) or die (“Unable to open file!”);
?>
```

PHP Read a File

fread() – function reads from an open file. The file object comes from fopen function.

Syntax

`fread($file_Object, filesize(“FileName”));`

Example

```
<?php
fread($myfile, filesize(“Student.txt”));
?>
```

PHP Close a File

fclose() – function is used to close an opened file. The file object comes from fopen function.

Syntax

`fclose($file_Object);`

Example

```
<?php
$file=file_fopen(“Student.txt”, “r”) ;
// some code to be executed...
fclose($myfile);
?>
```

PHP write a File

fwrite() – function is used to write to a file.

Syntax: `fwrite($myfile, $txt);`

1 Marks**9. CONNECTING PHP AND MYSQL**

1. Which is the correct function to execute the SQL queries in PHP?
 - a) `mysqli_query("Connection Object", "SQL Query")`
 - b) `query("Connection Object", "SQL Query")`
 - c) `mysql_query("Connection Object", "SQL Query")`
 - d) `mysql_query("SQL Query")`
2. Which is the correct function Closing Connection in PHP? -Mar 2024
 - a) `mysqli_close("Connection Object");`
 - b) `close("Connection Object");`
 - c) `mysql_close("Connection Object");`
 - d) `mysqli_close("Database Object");`
3. Which is the correct function to establish Connection in PHP?
 - a) `mysqli_connect("Server Name", "User Name", "Password", "DB Name");`
 - b) `connect("Server Name", "User Name", "Password", "DB Name");`
 - c) `mysql_connect("Server Name", "User Name", "Password", "DB Name");`
 - d) `mysqli_connect("Database Object");`
4. Which is the not a correct MySQL Function in PHP?
 - a) `Mysqli_connect()` Function
 - b) `Mysqli_close()` Function
 - c) **`mysqli_select_data()` Function**
 - d) `mysqli_affected_rows()` Function
5. How many parameter are required for MYSQLi connect function in PHP?
 - a) 2
 - b) 3
 - c) **4**
 - d) 5
6. How many parameter are required for MYSQLi query function in PHP?
 - a) **2**
 - b) 3
 - c) 4
 - d) 5
7. How many parameter are required for MYSQLi Close function in PHP?
 - a) **1**
 - b) 2
 - c) 3
 - d) 5
8. Which version of PHP supports MySQLi functions?
 - a) Version 2.0
 - b) Version 3.0
 - c) Version 4.0
 - d) **Version 5.0**

2 Marks

1. What are the MySQLi function available PHP?

Mysqli_connect() Function
 Mysqli_close() Function
 Mysqli_query() Function

2. What is MySQLi function?

MySQLi is extension in PHP scripting language which gives access to the MYSQL database. MySQLi extension was introduced version 5.0.0.

3. What are the types MySQLi function available PHP?

Database Connections
 Managing Database
 Performing Queries
 Closing Connection

4. Difference between Connection and Close function.

Connection function	Close function
Before accessing MySQL Database, connect to Database Server machine via PHP scripting language.	It is used to close an existing opened database connection between PHP scripting and MySQL Database Server.
This function requires 4 parameters.	This function requires only 1 parameter.
mysqli_connect()	mysqli_close()

5. Give few examples of MySQLi Queries.

Example

```
$con = mysqli_connect("localhost", "my_user", "my_password", "Student_DB");
$sql= "SELECT student_name, student_age FROM student";
mysqli_query($con, $sql);
```

6. What is connection string?

Connection string is a string that specifies the information related to database login. mysqli_connect () is used to connect the database.
 mysqli_connect_error() is used to connection is failed

3 Marks

1. Write the Syntax for MySQLi Queries.

Syntax:

```
mysqli_query("Connection Object", "SQL Query")
```

2. Write is the purpose of MySQLi function available.

In PHP Scripting language many functions are available for MySQL Database connectivity and executing SQL queries.

MySQLi is extension in PHP scripting language which gives access to the MYSQL database. MySQLi extension was introduced version 5.0.0.

Mysqli_connect() Function

Mysqli_close() Function

Mysqli_query() Function

3. Write MySQL Connection Syntax with example.

Mar 2024

Syntax:

```
mysqli_connect("Server Name", "User Name", "Password", "DB Name");
```

Example

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$db_name = "School_DB";

$conn = mysqli_connect($servername, $username,$password, $db_name);

if(!$conn)
{
    die("Connecton failed:" . mysqli_connect_error());
}
echo "Connected successfully";
?>
```

5 Marks

1. Discuss in detail about MySQL functions with example.

MySQLi is extension in PHP scripting language which gives access to the MYSQL database. MySQLi extension was introduced version 5.0.0.

Mysqli_connect() Function

Mysqli_close() Function

Mysqli_query() Function

Connect of Function

Syntax:

```
mysqli_connect("Server Name", "User Name", "Password", "DB Name");
```

Example

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$db_name = "School_DB";
$conn = mysqli_connect($servername, $username, $password, $db_name);
if(!$conn)
{
    die("Connecton failed:" . mysqli_connect_error());
}
echo "Connected successfully";
?>
```

Query of Function

Syntax:

```
mysqli_query("Connection Object", "SQL Query")
```

Example

```
$con = mysqli_connect("localhost", "my_user", "my_password", "Student_DB");
$sql= "SELECT student_name, student_age FROM student";
mysqli_query($con, $sql);
```

Close of Function

Syntax:

```
mysqli_close("Connection Object");
```

Example

```
<?php
$con = mysqli_connect("localhost", "$user", "$password", "SCHOOL_DB");
mysqli_close($con);
?>
```

2. Explain in details types of MySQL connection method in PHP.

MySQL Connection method

Before accessing MySQL Database, connect to Database Server machine via PHP scripting language. This function requires 4 parameters.

Syntax:

```
mysqli_connect("Server Name", "User Name", "Password", "DB Name");
```

Example

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$db_name = "School_DB";
$conn = mysqli_connect($servername, $username, $password, $db_name);
if(!$conn)
{
    die("Connecton failed:" . mysqli_connect_error());
}
echo "Connected successfully";
?>
```

- \$servername : Database Server Server I address
- \$username: Database Server User Name
- \$password: Database Server Password
- \$db_name: Database Name

The mysqli_connect function uses these variables to connect Database server to PHP. If connection gets fail, output will be printed with MySQL error code. Otherwise connection is success.

3. Explain MySQLi Queries with examples.- Mar 2020

The main goal of MySQL and PHP connectivity is to retrieve and manipulate the data from MySQL database server. The SQL query statements help in PHP MySQL extension to achieve the objective of MySQL and PHP connection. "mysqli_query" is a function that helps to execute the SQL query statements in PHP scripting language.

Syntax:

```
mysqli_query("Connection Object", "SQL Query")
```

Example

```
$con = mysqli_connect("localhost", "my_user", "my_password", "Student_DB");
$sql= "SELECT student_name, student_age FROM student";
mysqli_query($con, $sql);
```


10.INTRODUCTION TO COMPUTER NETWORKS

1 Marks

1. A set of computers **connecting together** is called as
 a) **Network** b) Server c) Hub d) Node
2. Many discussions in an **online forum leads to personal attacks** and is called
 a) Hackers b) Virus c) Online war **d) Flame war**
3. **Wi-Fi** is short name for - **Mar 2020**
 a) **Wireless Fidelity** b) Wired fidelity
 c) Wired fiber optic d) Wireless fiber optic
4. Which among them was **challenging to the business people** on computer networking
 a) Hacking b) Viruses **c) Both a & b** d) none of this above
5. Which one of the following is **not the social media**
 a) **Gmail** b) Facebook c) twitter d) LinkedIn
6. In mobile network, land areas for **network coverage** was distributed as- Mar 2024
 a) Firmware **b) cells** c) Range d) Service
7. Which one of the following are harmful to computer?
 a) Bloggers b) Browser **c) Hackers** d) twitter

2 Marks

1. What is a Computer Network.

A set of computers connected together for the purpose of sharing resources is called as computer networks.

2. Write short note on Internet.

INTERNET stands for INTER connected NETWORK. Internet is simply defined as the connection of individual networks operated by academic persons, industry people government, and private parties.

3. What are the common uses of computer network? -Mar2024

Communication
 Resource sharing
 Information sharing

4. What is node in Computer network.

A computer which is connected to a network is called as **node**.

3 Marks**1. Write a note on Resource Sharing.**

It allows all kind of programs, equipments and data to be accessed by anyone via network irrespective of the physical location of the resource. Simply resource sharing is a sharing of devices like printers, scanner, PDA, fax machine and modems.

2. List out some benefits of social networks.

Group information sharing over long distances.

Broadcast announcements.

Fostering diversity of thought.

3. Write a note on Mobile networks.

Mobile network is the network connecting devices without cable(wireless). Mobile computers such as laptop, tablet, and hand held computers, were fastest growing segments. At land areas network was distributed as cells, each will be served by single- location transceiver, but generally three cell sites or a base transceiver station. **Example:** Mobiles, Tablets, Pagers, Laptops, Modems etc.

5 Marks**1. Explain uses of Computer network.**

Communication	Using computer networks, we can interact with the different people with each other all over the world. People can easily communicate at very low cost via mobile social media, telephone, email, chatting, video conferencing SMS, MMS, groupware etc.
Resource sharing	It allows all kind of programs, equipments and data to be accessed by anyone via network irrespective of the physical location of the resource. Simply resource sharing is a sharing of devices like printers, scanner, PDA, fax machine and modems.
Information sharing	Using computer network, any application or other software can be stored at a central computer or server. The software can be shared among other computers, of the network. It provides high reliability and backup can also be stored at one location for easy availability in case of crash.

2. Explain about social applications in Computer network.

To get connected with people around the world through social network media applications like whatsapp, Facebook, Twitter etc.

Membership	User to register names and accounts to avoid duplicate and maintain secrecy. Public Networks offer free registration and some meager charges for their services. Private Networks (Bank Account Holders groups) restrict registration to people.
Content contribution	Members to easily share comments, audio, video, text, animation files etc., with others.
Frequent visits	A group of members who check in regularly to contribute their share and also for new updates.
Relationship building	Most social networks is to allow interaction among people, which create stronger connection with people of different communities.

11. NETWORK EXAMPLES AND PROTOCOLS

1 Marks

1. Which of the following system securely share business's information with **suppliers, vendors, partners and customers.**

- a) **Extranet** b) Intranet c) Arpanet d) Arcnet

2. Match the following and choose the correct answer

i. HTTP – The core protocol of the World Wide Web.

ii. FTP – enables a client to send and receive complete files from a server.

iii. SMTP – Provide e-mail services.

iv. DNS – Refer to other host computers by using names rather than numbers.

- a) **i, ii, iii, iv** b) ii, iii, iv, i c) iii, iv, i, ii d) iv, iii, ii, i

3. Communication over.....is be made up of **voice, data, images and text messages.**

- a) Social media **b) Mobile network** c) whatsapp d) software

4. **Wi-Fi** stands for..... Mar 2020

- a) **Wireless Fidelity** b) Wired fidelity
c)Wired optic fibre d) wireless optic fibre

5. A TCP/IP network with **access restricted to members of an organization**

- a) LAN b) MAN c) WAN **d) Intranet**

6. **RFID** stands for

- a) Radio Free Identification b) real Frequency identity
c) Radio Frequency indicators **d) Radio Frequency Identification**

7. It guarantees the **sending of data is successful** and which checks error on operation at **OSI layer** is.....

- a) Application layer b) Network layer
c) Transport layer d) Physical layer

8. Which one of the following will **secure data** on transmissions

- a) **HTTPS** b) HTTP c) FTP d) SMTP

9.provides e-mail service

- a) DNS b) TCP c) FTP **d) SMTP**

10.Refer to other host computers by using names rather than numbers.

- a) **DNS** b) TCP c) FTP d) SMTP

2 Marks

1. Define Intranet. – Mar 2020

Intranet is a private network within an enterprise to share company data and computing resources between the employees.

Example: Access employee database

2. What is the uses of mobile networks?

The common application of mobile networks is mobile phones, tablets, etc. Data and voice are being transmitted over both circuit via switched networks and packet switched networks.

3. List out the benefits of WiFi – Mar 2023

It provides mobility.

It provides connection to Internet.

Flexibility of LAN.

Ensures connectivity.

Low cost, high benefits.

4. Expand HTTP, HTTPS, FTP.

HTTP – Hyper Text Transfer Protocol

HTTPS – Hyper Text Transfer Protocol Secure

FTP – File Transfer Protocol

3 Marks

1. Compare Internet, Intranet, and Extranet – Mar 2022

Internet	Intranet	Extranet
Several networks, small and big all over the world, are connected together to form a Global network called the Internet.	Intranet is a private network within an enterprise to share company data and computing resources between the employees.	Extranet is a private network using Internet technology to share part of business information with supplier's partners and customers.
Social media, e-mail etc.	Access employee database, submission of reports etc.	Customer communications, Online Education etc.

2. Write short notes on HTTP, HTTPS, FTP. – Mar 2023

HTTP – It is used between a web client and a web server protects *non-secure* data transmissions.

HTTPS- It is used between a web client and a web server permits *secure* data transmissions.

FTP- It is used between computers for sending and receiving file.

3. What are the layers available in TCP/IP Reference Model?

Network Access Layer – concerned with building packets.

Internet Layer – describes how packets are to be delivered.

Transport Layer – ensure the proper transmission of data.

Application Layer – Application network processes. FTP, HTTP, SMTP.

5 Marks

1. Explain about Internet, Intranet, Extranet – Mar 2023

Internet	Intranet	Extranet
Several networks, small and big all over the world, are connected together to form a Global network called the Internet.	Intranet is a private network within an enterprise to share company data and computing resources between the employees.	Extranet is a private network using Internet technology to share part of business information with supplier's partners and customers.
Social media, e-mail etc.	Access employee database, submission of reports etc.	Customer communications, Online Education etc.
Public	Private	Private
Large number of connected devices	Limited number of connected devices	Limited number of connected devices over Internet
Not owned by anyone	Owned by a particular organization	Owned by one or more Organizations.
WWW, Email, Social media	Departments, company, organizations.	Suppliers, customer, and vendors.

2. Discuss about OSI model with its Layers. Mar 2020

OSI Layers	Definition
1. Physical Layer	This is the 1 st layer, it defines the electrical and physical specifications for devices .
2. Data Link layer	This is the 2 nd layer, it guarantees that the data transmitted . “802.3 for Ethernet ” and “802.11 for Wi-Fi ”
3. Network layer	This is the 3 rd layer, determining the path of the data packets is using IP Address .
4. Transport layer	This is the 4 th layer guarantees the sending data is successful . It includes error checking operation.
5. Session layer	This is the 5 th layer identifies the system session between different network entities.
6. Presentation layer	This is the 6 th layer Encryption and decryption protocols occur in this layers such as Secure Socket Layer(SSL)
7. Application layer	This is the 7 th layer it acts the user interface platform comprising of software within the system .

3. Difference between TCP/IP and OSI Reference Model.

TCP/IP	OSI
Transmission Control Protocol/ Internet Protocol	Open System Interconnection
4 Layers	7 Layers
Horizontal approach	Vertical approach
Supports only connection less Communication.	Supports connectionless and connection- oriented communication
It is Tangible	It is not Tangible
Top to bottom approach	bottom to top approach
It is client server model	It is conceptual model.