

## POKHARA UNIVERSITY

Level: Bachelor  
Programme: BE  
Course: Web Technology

Semester: Fall

Year : 2014  
Full Marks: 100  
Pass Marks: 45  
Time : 3hrs.

*Candidates are required to give their answers in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

*Attempt all the questions.*

- |    |   |   |
|----|---|---|
| 1. | a) What is a web server? How is domain name conversion carried out?                 | 5 |
|    | b) Differentiate between SMTP and POP.  | 5 |
|    | c) How can you specify Hypertext Links? Design a simple frame using HTML notations. | 5 |
| 2. | a) Write HTML codes to create the following list.                                   | 5 |

### World:

#### 1. Asia:

- Nepal
- China
- Bangladesh

सुगम स्टेसनरी सलायर्स एण्ड फेटोकपी सर्विस  
बालकुमारी, ललितपुर ९८४९५९५९२  
NCIT College

#### 2. Europe:

- i. England
- ii. France

#### 3. Africa:

- a. Ghana
- b. Uganda

#### 4. Australia

- |       |   |    |
|-------|---|----|
| b)    | What are style sheets? What are the various levels of style sheets supported by CSS? Illustrate with simple example for each of them. | 10 |
| 3. a) | Why is JavaScript called as client side scripting language?<br>Write the code for email validation in JavaScript.                     | 8  |

- b) Why is DOM used in JavaScript? Explain DOM structure using an example. 7
4. a) How does JavaScript handle events? Is it possible to change the color of the text displayed in HTML document using JavaScript? Write a simple program for illustrating it. 10
- b) How does PHP support looping? Explain with an example script. 5
5. a) Write a PHP code to create a database '*hotel*' with a table '*guest*'. The table must have the fields 'id', 'name', 'address', 'email' and 'date'. Also, assign one of the fields as primary key. 5
- b) Create a form for getting the data for question 5(a). Then write a PHP script that reads the data submitted from the form and inserts them to the '*guest*' table in the database. Also, apply a validation mechanism to ensure that the 'name' contains only alphabetic characters (A-Z a-z). 10
6. a) Why do you need session in PHP? Explain with an example. 5
- b) What do you mean by cookie? How does it differ from session? 5
- c) How does PHP support pattern matching? Explain with example. 5
7. Write short notes on *any two*: 2×5
- a) MIME
  - b) Style Classes
  - c) Multimedia in HTML

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1. a) What is Intranet? Explain the term web architecture with example. 7
- b) What is url? Explain the Wap, MIME and HTTP. 8
2. a) Write a HTML for creating the following table. 7

S.N.	Name	Marks	
		In Figures	In Words
1.	Dinesh Sapkota	81	Eighty-One
2.	Arbind koirala	88	Eighty-Eight

- b) What are protocols? Describe the possible values of rows and cols attributes of <frameset> with example. 8
3. a) What is the purpose of external style sheets? What is the advantage of document-level style sheets over inline style sheets? 7
- b) Why must background images be chosen with care? What properties are used to set margins, borders, paddings around elements? Briefly explain the uses of span and dir tag. 8
4. a) Describe the semantic of join, slice method in javascript. Write a function in javascript to reverse the string supplied using prompt. 7
- b) What do you mean by DOM in javascript? How XHTML element positioning, visibility, stacking are possible in java script. 8
5. a) What are the main uses of PHP in web programming? Why PHP is called as Server Side Scripting Language? 8
- b) Explain the importance of Session in PHP with suitable code. 7
6. a) What is CCS-P? Explain Events and Events Handling with example in javascript. 7

- b) Write a PHP program that perform add and delete operation of MySQL table name abc, having field names XX, YY and ZZ of type integer string and string. 8
7. Write short notes on: (Any two) 2x5
- a) Table join command.
  - b) Dragging and dropping element.
  - c) Replace ( ) and match ( ) function.

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*Attempt all the questions.*

- |    |  |     |
|----|--|-----|
| 1. | a) Define DNS. Explain about web server operations in detail.  | 7   |
|    | b) Differentiate between SMTP & POP protocols. Explain about web server.   | 8   |
| 2. | a) What tag is used to define a link and explain its attributes with example?  | 7   |
|    | b) Explain types of list with their attributes and examples.   | 8   |
| 3. | a) What is the purpose of style sheets? What is the advantage of external style sheets over inline and document-level style sheets?                    | 7   |
|    | b) Explain CSS box model with an appropriate example? What is the purpose of class selector?   | 8   |
| 4. | a) What do you know about JavaScript DOM? Explain different kinds of dialog boxes.   | 8   |
|    | b) Using JavaScript event write a program that changes the visibility of HTML elements.  | 7   |
| 5. | a) Why JavaScript is useful in WebPages? Give the difference between Java & JavaScript with examples.  | 7   |
|    | b) Explain session and cookies with examples.  | 8   |
| 6. | a) Write a server side script for user registration having input fields name, password, age, email, phone with a proper client side validation.        | 8   |
|    | b) Write a PHP program that creates a table "Employee (id, name, department, phone, age, address)" and insert query to insert a new row in that table. | 7   |
| 7. | Write short notes on: (Any two)  | 2×5 |
|    | a) Array in PHP.   |     |
|    | b) JavaScript Event  |     |
|    | c) Pattern Matching in PHP   |     |

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*Attempt all the questions.*

1. a) What do you mean by protocols? Explain the use of following protocols: 8
- i. HTTP
  - ii. DHCP
  - iii. POP3
  - iv. FTP
- b) What are META tags? Explain with suitable example. 7
2. a) Write a HTML code to generate following table with form elements. 10

**Fill the form below**

Name:	<input type="text"/>	
Password:	<input type="password"/>	
Feedback:	<input type="text"/> 	
Gender:	<input type="radio"/> Male	<input type="radio"/> Female
Subject:	<input type="checkbox"/> Web <input type="checkbox"/> Math <input type="checkbox"/> Graphics <input type="checkbox"/> English	
	<input type="button" value="Reset All"/>	<input type="button" value="Submit Above Details"/>

- b) What is a Frame? List out the advantages and disadvantages of using a Frame. 5
3. a) Why CSS is used in Web designing? Explain different levels (types) of style sheets with example. Also write advantages and disadvantages of each. 8

- b) List out the Font, Background, Text & Border properties with values. 7  
Explain uses of Span & Div tag.
4. a) What is Document Object Model (DOM) in JavaScript? Explain with example. 7
- b) Write a program in JavaScript to display a prompt for 2 numbers, and show its sum in alert box. 8
5. a) What are the main uses of PHP in web programming? Why PHP is called as Server Side Scripting Language? 8
- b) Explain the importance of Session in PHP with suitable code. 7
6. a) Write a PHP and MYSQL code to check authorized user for your web site. 7
- b) Explain select, insert, update, delete and join MYSQL Command with an example. 8
7. Write short notes on: (Any two) 2x5
- a) Domain Name Registration
- b) Event and Event handling in JavaScript
- c) Dragging and dropping element

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*Attempt all the questions.*

- |       |  |   |
|-------|--|---|
| 1. a) | Is the Internet and Web same? Write about the differences between internet, intranet and extranet. | 7 |
| b)    | Discuss the terminologies HTTP, POP and SMTP in web technology in detail.                          | 8 |
| 2. a) | What is HTML? Explain basic syntax of HTML? How HTML differs from XHTML?                           | 6 |
| b)    | Write HTML code for following:   | 9 |

LIST with Links	IMAGE
<p>1. <i>EPL</i></p> <ul style="list-style-type: none"> <li>○ <u>Man City</u></li> <li>○ <u>Chelsea</u></li> <li>○ <u>Liverpool</u></li> </ul> <p>2. <i>LALIGA</i></p> <ul style="list-style-type: none"> <li>● <u>Real Madrid</u></li> <li>● <u>Barcelona</u></li> </ul>	 

- |       |   |    |
|-------|---|----|
| 3. a) | What is CSS? What are the different levels of style sheets? Illustrate all types with example.                              | 10 |
| b)    | What DOM stands for? Describe DOM model in JavaScript.  | 5  |
| 4. a) | Can JavaScript be used as server side script? How element visibility can be changed using JavaScript? Explain with example. | 7  |

- b) Write a program in Java Script to validate a form. The user form includes user name, phone no. and submit button. On clicking the submit button validate the following :
- i. If the name or phone no. fields are blank.
  - ii. If the phone number contains numeric digits only.
5. a) Write about PHP. What are the main uses of PHP in web programming? Explain different kinds of array in PHP.
- b) Explain about Form handling and File handling in PHP with examples.
6. a) Discuss the use of cookies and sessions with example scenario of each in PHP.
- b) Write CRUD queries required to connect, fetch, delete and update data in PHP from MYSQL.
7. Write short notes on: (Any two)
- a) MIME
  - b) Lists in HTML
  - c) Changing colors and fonts with JavaScript.

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**Attempt all the questions.**

1. a) Define DNS. List the different MIME headers and explain them. 8  
b) Discuss the need of web browser and web server in accessing the Internet. 7
  2. a) Write the HTML code to create the following list. 10
- Barclays Premier League**
- i. Manchester United
  - ii. Manchester City
  - iii. Chelsea
  - iv. Arsenal
- LaLiga**
- i. Real Madrid
  - ii. Barcelona
- Bundesliga**
- i. Bayern Munchen
  - ii. Borussia Dortmund
- b) What is a Frame? List out the advantages and disadvantages of using a Frame. 5
  3. a) Why CSS is used in Web designing? Explain different levels (types) of style sheets with example. Also write advantages and disadvantages of each. 8  
b) Why JavaScript is called as Client Side Scripting Language? Explain the Prompt Box in JavaScript with syntax only. 7
  4. a) Write a JavaScript program which validates the user data (name, email, contact no) and displays the success message if validated successfully. Also create the HTML form for entering the data. 8

सुगम स्टेसनरी सलायर्स एण्ड फोटोकपी सर्विस  
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**NCIT College**

- b) Write a Program to alter the visibility of an image of HTML document using JavaScript. 7
5. a) What are the main uses of PHP in web programming? Explain different Kinds of array in PHP. 8
- b) How do you connect PHP with MySQL? Write a PHP code that retrieves the name & password from database. 7
6. a) Explain PHP Programming Language? How (PHP) supports cookies? Explain. 7
- b) What are the uses of session? Is it possible to work with sessions in PHP? Explain with an example. 8
7. Write short notes on: (Any two) 2×5
- a) CSS Box Model
  - b) SMTP
  - c) DOM Model

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**Attempt all the questions.**

1. a) What protocol is used by all computer connections to the Internet? 7  
Describe a fully qualified domain name with example
- b) What is the purpose of a MIME type specification in a request/response transaction between a browser and a server? 8
2. a) Write an HTML to create the following table: 8

Life Expectancy By Current Age					
65		40		20	
Men	Women	Men	Women	Men	Women
82	85	78	82	77	81
Click <a href="#">here</a> for more details.					

- b) Create an HTML document that contains five different headlines from a newspaper headline. Each headline should use a different heading tag and a different color. Make all the text use the Helvetica font. Every verb in the text must have a line through it. 7
3. a) What is the difference in behavior between a group of checkbox buttons and a group of radio buttons? Under what circumstances is a select menu used instead of a radio button group? 8
- b) What do you mean by CSS? What is the advantage of external style sheets over inline and document-level style sheets? 7
4. a) Explain DOM? Explain Handling event from page load and button elements with an example. 7
- b) Create an HTML form that takes user's email address and password. Validate the form using JavaScript when the submit button is clicked. Make sure that the fields are not empty and the email address is a 8

- valid one. 7
5. a) Explain constructor in JavaScript with example. 7  
b) How are cookie and session different? Give examples to support your answer. 8
6. a) Write MySQL query to: 8  
    a. Create a database named management and use it.  
    b. Create a table named users with id(integer), name(string), email(string), password(string), subscriber(Boolean).  
    c. Insert data in the table  
    d. Extract data from the table
- b) Write a server side script for user registration having input fields name, password, age, email, phone with a proper client side validation. 7
7. Write short notes on: (Any two) 2×5  
a) Web hosting  
b) Array in PHP  
c) frameset

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1. a) Explain in brief about the domain name registration and hosting process. 5
- b) How does HTTP works? Describe. 5
- c) Describe the structure of standard HTML document. 5
2. a) Write HTML tags to generate the following form: 7

## Student Directory

Name	<input type="text"/>
Class	<input type="text"/>
Roll No.	<input type="text"/>
E-mail	<input type="text"/>

- b) What are the different levels of style sheets? Mention different style specification formats with appropriate examples. 8
3. a) Describe different properties and property values associated with fonts, lists, colors and images. 7
- b) What do you mean by DOM in Java Script? Why is Java Script called client side scripting language? 8
4. a) How do you move elements, change font styles of the texts and drag & drop elements with Java Script? Explain with appropriate examples. 8
- b) Write a program in Java Script to validate a form. The user form includes user email, password and submit button. On clicking the submit button validate the following: 7
  - i. if the email or password fields are blank

- ii. if the format used for email is right.
5. a) What is type conversion? How do php deal with type conversions? Explain. 7
- b) Write necessary php scripts to make connection with the database and insert/save form data in question no. 2(a) into database. 8
6. a) How is array implemented in php? Explain. 7
- b) What is session? What is the importance of session handling in web programming? Explain 8
7. Write short notes on: (Any two) 2×5
- a) MIME
  - b) Frames
  - c) File handling in php

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Attempt all the questions.

1. a) Define DNS. Explain about HTTP and MIME protocols. 7  
b) A company asked you to develop website for it. Which language and tools will you use for the development and why? Also how can you put the website online? 8
2. a) Write a HTML code to generate following table with form elements 10

**Fill the form below**

Name:	<input type="text"/>
Password:	<input type="password"/>
Feedback:	<input type="text"/>
Gender:	<input checked="" type="radio"/> Male <input type="radio"/> Female
Subject:	<input checked="" type="checkbox"/> Web <input type="checkbox"/> Math <input type="checkbox"/> Graphics <input checked="" type="checkbox"/> English
<input type="button" value="Reset All"/> <input type="button" value="Submit Above Details"/>	

- b) Discuss how events are handled in JavaScript. 5
3. a) Why CSS is used in Web designing? Explain different levels (types) of style sheets with example. Also write advantages and disadvantages of each. 10  
b) Explain the DOM model used in JavaScript. 5
4. a) Write JavaScript code to illustrate element positioning, stacking elements and mouse cursor. 8

- |    |  |     |
|----|--|-----|
| b) | Explain the origin, major features and arrays of PHP.  | 7   |
| 5. | a) Write a program in PHP to list out all prime numbers within a given range.  | 8   |
|    | b) Why JavaScript is called as Client Side Scripting Language? Explain the Popup Box in Javascript with syntax only. | 7   |
| 6. | a) What are cookies? How can we write a cookie on user computer? Explain with a sample code.                         | 8   |
|    | b) How do you connect PHP with MySQL? Write a PHP code that retrieves the name and password from database.           | 7   |
| 7. | Write short notes on: (Any two)  | 2×5 |
|    | a) Session Handling  |     |
|    | b) Multimedia in HTML  |     |
|    | c) RSS feed  |     |

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*Attempt all the questions.*

- |   |   |
|---|---|
| 1. a) What is image map in HTML? Write a HTML code to show the mapping of image.  | 7 |
| b) What is the function of Domain Name System? Write about the differences between LAN, WAN, MAN, PAN and Web.  | 8 |
| 2. a) Explain the following:<br>i. URL vs URI<br>ii. MIME Headers<br>iii. HTTP vs HTTPS<br>iv. SMTP vs POP3   | 8 |
| b) Create an HTML form with one textbox for getting name, one textbox for getting password, two radio buttons for getting gender (male and female), dropdown for getting subjects (Web, Math) and textarea for getting feedback.  | 7 |
| 3. a) What are the main purposes of id and class selectors? Explain with respective examples.<br>b) Define DOM. Write JavaScript function to validate a form input field for <b>onblur</b> event whether it is blank or not and contains number or not.   | 7 |
| 4. a) Is JavaScript Object Oriented Programming Language? Illustrate your answer with suitable reasons and examples.<br>b) Write JavaScript code to find the factorial of a number requesting a number from user using prompt.<br>c) How dragging and dropping of XHTML elements is possible in JavaScript? | 5 |
| 5. a) Explain the use of PHP <b>\$_GET</b> and <b>\$_POST</b> variables.<br>b) Explain the CRUD operation in MySQL along with example.  | 5 |

- |    |   |     |
|----|---|-----|
| c) | Explain the uses of pattern matching in PHP with suitable example.  | 5   |
| 6. | a) Describe Starting, Storing and Destroying a Session. Explain with sample codes.  | 8   |
|    | b) Write a PHP code that connects with the database and insert (firstname, lastname, age) in a table using insertion query. | 7   |
| 7. | Write short notes on: (Any Two):  | 2×5 |
|    | a) Domain Registration Process  |     |
|    | b) Div and Span   |     |
|    | c) MySQL Joins  |     |

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*Attempt all the questions.*

1. a) What are the functions of MIME? Explain the protocols that are used in e-mail. 8
- b) Explain the essential difference between: 7
  - i) URL and URI
  - ii) HTTP and FTP
2. a) Why table-less design is preferred more than table-based design? 8  
 Write HTML code for following :

Roll no:	Name	Subjects			
		C	Web	Math	C++
1	Abhisek	50	45	60	70
2	Suresh	50	45	45	NQ
3	Yodhin	80	85	90	75

**Contact to department if Not Qualified(NQ)**

3. b) What is image map in HTML? Explain with an example. 8
- a) What are the advantages of using CSS over tables to create websites? Explain different CSS selectors with examples. 8
- b) How can you validate form in JavaScript? Write a program to explain it. Your program must contain email, password and submit button. On clicking validate whether the fields are blank and the format for the email is right. 7
4. a) What do you mean by event and event handling? Explain the handling mechanism in javascript. 7
- b) What is the difference between '==' and '===' in JavaScript? How dynamic contents and stacking of XHTML elements are made possible in JavaScript? 8
5. a) What are the main uses of PHP in web programming? How a file handling is done in PHP? 7

- |    |    |  |     |
|----|----|--|-----|
|    | b) | Make a login form with e-mail and password. Write a program to make dynamic login using php and MYSQL query. Your program must contain database connection file from php to MYSQL. | 8   |
| 6. | a) | How is array implemented in PHP? Differentiate between <i>foreach</i> loop and <i>each ()</i> function with example.   | 7   |
|    | b) | Explain the uses of pattern matching in PHP with suitable example.   | 8   |
| 7. |    | Write short notes on: (Any two)  | 2×5 |
|    | a) | Levels of style sheets   |     |
|    | b) | DOM Hierarchy in JavaScript  |     |
|    | c) | SQL Joins  |     |

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- |    |   |             |
|----|---|-------------|
| 1. | a) Define Internet. Explain two-tiered and three-tiered web architectures.<br>b) Define URL and domain name. Explain about HTTP, FTP and WAP protocols.   | 7<br>8      |
| 2. | a) Create an HTML form with one textbox for getting name, one text box for getting password, two radio buttons for getting gender (male and female), dropdown for getting subjects(WT, Math, C, C++) , text area for getting feedback and one submit button.<br>b) Define Empty HTML Elements with examples. Explain the uses of <frame>, <iframe> and <table> tags in HTML with examples of each.  | 8<br>7<br>8 |
| 3. | a) Define CSS. Why it is important? Explain <span> and <div> tags with examples.<br>b) Write a program to explain e-mail validation. Your program must contain email, password and submit button. On clicking, validate whether the fields are blank and the format for the email is right.   | 7<br>7      |
| 4. | a) Define event. Explain about event handling mechanism in Javascript with example.<br>b) Is there any possibility of dynamic stacking of images in JavaScript?<br>Explain your answer with an example.   | 7<br>8      |
| 5. | a) What type of programming is PHP programming? Explain about its general syntactic characteristics.<br>b) Write a PHP and MySQL code for the following:<br>i. Create a database 'institute' with a table 'tbl_users' and fields on table as 'id', 'name', 'roll', 'mobile_number', 'email', 'status' with 'id' as primary key.<br>ii. Create HTML form for getting data on (i). Write PHP code to read data submitted from the form and insert it on 'tbl_users'. Also, apply the server side validation mechanism for empty inputs. | 7<br>8      |
| 6. | a) Explain the implementation of session and cookies in PHP with  | 8           |

- example codes of each.
- b) Why is SQL join needed? Illustrate it with different types of SQL      7  
Joins with examples.
7. Write short notes on: (Any two)    2×5
- a) Box model in CSS
  - b) Dragging and dropping elements in javascript
  - c) Indexed and associative arrays in PHP

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*Attempt all the questions.*

1. a) What is web standard? Explain different types of web standards available in web technology with example. 8
- b) Define DNS? Explain the uses of following protocols in web technology:
  - i) HTTP
  - ii) POP
  - iii) FTP7
2. a) Write HTML tags to generate the following forms: 8

## Students Data Entry Form

Student Name: \_\_\_\_\_

Address: \_\_\_\_\_

College: \_\_\_\_\_

Email: \_\_\_\_\_

Gender:  Boy  Girl  Other

Subjects:  PQT  WT  DSA  LC  EMTH-III  EC&I

City / Town:

Nuwakot
Kathmandu
Nuwakot
Pokhara
Biratnagar

Comments:

- b) What are the two required attribute of `<img>` tag in HTML? Describe different types of multimedia format used in HTML with example. 7
3. a) What is the purpose of CSS? List out Different Types of CSS Selectors. Explain box model in CSS with suitable figure. 7
- b) Define DOM. Differentiate between **DOM 0** and **DOM 2** event models in JavaScript with suitable examples. 8
4. a) What is the difference between `= =` and `= ==` in JavaScript? Write down the different data types in JavaScript with example. 7
- b) How can we locate the mouse cursor and react to mouse clicks in JavaScript? Explain with example. 8
5. a) Why PHP is called server-side scripting language? Explain output and control statements in PHP with examples. 7
- b) Differentiate cookie and session. Explain with an php program. 8
6. a) In what ways can arrays in PHP be created? How can we access array elements? Briefly describe functions for dealing with arrays in PHP. 7
- b) Make a login form with e-mail and password. Write a program to make dynamic login using php and MYSQL query. Your program must contain database connection file from php to MYSQL. 8
7. Write short notes on: (Any two) 2×5
- a) Stacking Elements in JavaScript
- b) Dynamic content in JavaScript.
- c) CRUD Operation in MYSQL.

# POKHARA UNIVERSITY

Level: Bachelor

Semester -Spring

Year: 2020

Program: BE

Full Marks: 70

Course: Web Technology

Pass Marks: 31.5

Time: 2 hrs.

*Candidates are required to answer in their own words as far as practicable.  
The figures in the margin indicate full marks.*

## Group - A: Attempt all questions (5×10=50)

Q. N. 1 What happens if you enter <https://pu.edu.np> into your browser? Describe the 10 procedures behind the screens. Describe along with its block diagram.

Q. N. 2 Differentiate between inline, internal and external CSS with an example? 7+3  
In the code snippet below, what would be the color of both elements 1 and 2?  
Also explain why?

style.min.css

```
#about p.element-2{color: red;} .about p.element-2{color: black;}  
#about p{color:blue;} .about p {color: yellow;} p{color: white;}
```

index.html

```
.....  
<div id="about" class="about">  
    <p class="element-2">      <!-- Element 1 -->  
        All right reserved  
    </p>  
    <p id="element-2">    <!-- Element 2 -->  
        I love Web Technology  
    </p>  
</div>
```

Q. N. 3 Write a program to display following output. 10

No.	Full Name	Club	Salary	Type
1	Lionel Messi	FC Barcelona	130 million EUR	
2	Cristiano Ronaldo	Juventus	96.4 million EUR	
3	Neymar	Paris Saint	92.8 million EUR	Football Player
4	Paul Pogba	Manchester United	29.2 million EUR	
Total Expense:			348 million EUR	

**Q. N. 4** “JavaScript programs the behavior of a webpage”. Explain this statement with suitable example. Employ DOM event model in JavaScript to illustrate dragging and dropping of elements with suitable example. 4+6

**Q. N. 5** What are the different types of arrays in PHP ? Explain the details with syntax (Use the names of your friends as an example) 10

**OR**

What role do session and cookies play in allowing web servers to store stateful data? Give an example to illustrate your point.

**Group - B: Problem-solving/case studies (1×20=20)**

**Q. N. 6** Prepare a login form with the input field username/email and password and also the option for remembering the login session. Write PHP-MySQL code to establish the database connection and verify the user and successfully login and establish login sessions for valid user and show error message if invalid. Use the client and server side validations, along with pattern matching implemented to allow only authorized users. 2+8+4  
+3+3