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COURSE : MCA

UNIVERSITY Roll No -> 2101053

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PAPER NAME -> Scripting Language and R Lab

PAPER CODE -> PMC-103

TYPE OF PAPER -> Regular (End term)

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Ans 1 -> Source code :-

```
<html>
<head> validate Method </head>
<body>
<form name="rform" action="/actionpage.php" onsubmit="return validate()"
 method="post">
 Name: <input type="text" name="fname"> <br>
 Password: <input type="password" name="password"> <br>
 course : <input type="text" name="course"> <br>
 <input type="submit" value="submit">
 <script>
 function validate()
  let x = document.forms["rform"]["fname"].value;
  let x1 = document.forms["rform"]["password"].value;
  let x2 = document.forms["rform"]["course"].value;
  if (x=="" && x1=="" && x2=="")
{ alert ("Name, password, course must be filled out");
}
else if (x=="" && x1=="")
{ alert ("name, password must be filled out");
}
else if (x=="" && x2=="")
{ alert ("name, cause must be filled out");
}
```

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```
else if (x1 == "" && x2 == "")
  { alert ("password, course must be filled out");
  }
  else if (x == "")
   { alert ("name must be filled out");
  }
  else if (x1 == "")
  { alert ("password must be filled out");
  }
  else if (x2 == "")
  { alert ("course must be filled out");
  }
return false;
}
</script>
</form>
</body>
</html>
```

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Ans 2→

```
<!Doctype html>
<html lang="en">
<head>
<title>PHP Register form</title>
</head>
<body>
<?php
$nameErr="";
$emailErr="";
$genderErr="";
$websiteErr="";
$name="";
$email="";
$gender="";
$comment="";
$website="";
if($_SERVER["REQUEST_METHOD"]=="POST")
{
  if(empty($_POST["name"]))
  {$nameErr="Name field is required";
  }
  else{
      $name=test_input($_POST["name"]);
  if(!preg_match("/^[a-zA-Z-']*$/",$name))
{$nameErr="only letters and white space allowed";
}
}
if(empty($_POST["email"]))
{$emailErr="Email is required";
```

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```
    }
    else
    {
     $email = test_input($post["email"]);
     if(!filter_var($email, filter_validate_email))
      { $emailErr = "invalid email format";
    }}
    if(empty($POST["website"]))
    { $website = " ";
    } else {
        $website = test_Input($POST["website"]);
if(!preg_match("/\b(?:(?:https?|Http):\/\/|www\.)[a-z0-9+&@#\/%
?=~_|!:,.;]*[-a-z0-9+&@#\/%=~]/i", $website))
 { $websiteErr = "Invalid URL";
}}
if(empty($_POST["comment"]))
 { $comment = " ";
} else {
        $comment = test_input($_POST["comment"]);
}
 if(empty($_POST["gender"]))
  $genderErr = "Gender is required";
  }else{
        $gender = test_input($_POST["gender"]);
  }}
function test_input($data)
{ $data = trim($data);
 $data = stripslashes($data);
```

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```
$data = htmlspecialchars($data);
return $data;
}
?>
<h1>PHP Registration form</h1>
<form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP
SELF"]); ?>">
<b> Enter Name :</b><input type="text" name="name" value="<?php echo
$name; ?>">
<span class="error">* <?php echo $nameErr; ?></span> <br><br>
<b> Enter Email :</b><input type="text" name="email" value="<?php
echo $email; ?>">
<span class="error">* <?php echo $emailErr; ?> </span> <br><br>
<b>Enter website:</b><input type="text" name="website" value="<?php
echo $website; ?>">
<span class="error">* <?php echo $websiteErr; ?></span><br>
<br><b> comment: </b> textarea name="comment"><?php echo $comment;
?></textarea><br><br><b> <b> select Gender : </b>
<input type="radio" name="gender" <?php if (isset($gender) && $gender
=="female") echo "checked"; ?>
value="female"> female
<input type="radio" name="gender" <?php if (isset($gender) && $gender
=="male"> Male
<input type="radio" name="gender" <?php if (isset ($gender && $gender
== "other") echo "checked"; ?>
value="other"> other
<span class="error">* <?php echo $genderErr; ?></span><br><br>
Input type="submit" name="submit" value "Register">
</form>
```

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```
<?php
 echo "<h2> Your input: </h2>";
 echo $name;
 echo "<br>";
 echo $email;
 echo "<br>";
echo $website;
 echo $"<br>";
echo $comment;
echo "<br>";
echo $gender;
 echo "<br>";
echo "<b> Your data is saved"

?>
</body>
</html>
```

Ans 3 →

```
# Dplyr library function
 library (dplyr)
 setwd ("C:/MCA").
 mydata <- read.csv("most_goals.csv")
 mydata

# Descriptive statistics
 Summary (mydata)
 dim (mydata)
 Str (mydata)
names (mydata)
```

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```
# Select function
  mysubdata <- select (mydata, player, average)
  mysubdata

# filter and arrange function
  mysubdata1 <- filter (mydata, average > 25)
  mysubdata1
  mysubdata2 <- arrange (mydata, desc (average))
  mysubdata3 <- arrange (mydata, desc (strikerate))

# TOP and Bottom 5 average player
  head (mysubdata2)
  tail (mysubdata2)

# mutate function (to add a coloumn to data set)
  mydata <- mutate (mydata, performance = goals per match)

# Different Plot of Dataset

# Histogram
hist (mydata$ average, col = c ("Red", 'Blue', 'Grey');
xlab = "Average", ylab = "players", break = 10)

# scattered plot
  plot (mydata$ strikerate, col = c ('blue', green', red');
    xlab = "players", ylab = "Strikerate")

# Bar plot
  barplot (mydata$ average, col = c ('Red', 'Blue', 'Green');
  xlab = "players", ylab = "Average")

# Box plot
    boxplot (mydata$ average, col = c ("Red", 'Blue', 'Green');
  xlab = "players", ylab = "Average")
```

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Ans4→ # descriptive statistics

```
Summary(mydata)
dim(mydata)
Str(mydata)
names(mydata)
# Inferential statistics.
# chi-squared test
model <- chisq.test(mydata)
model
# Output p-value = 0.424326 > 0.05
# Thus 'mydata' is highly correlated and we accept the NULL HYPOTHESIS
# Correlation coefficient
cor(mydata$Player, mydata$goals)
# output 0.9992 > 0.8
# Thus Batsman runs is strongly correlated to
# each other
# Anova test
mysubdata4 <- aov(mydata$goals ~ mydata$average)
mydata4
# output Pr(>F) is 0.0012 as this value is less than 0.05 then we reject
# Null hypothesis and accept the alternative hypothesis.
# T-Test
# This gives us the T-score for the dataset.
t.test(mydata, mu=100)
#Here p-value is 0.442623 > 0.05
# So we accept the Null Hypothesis
```

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