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Department of Computer Science and Engineering
B. Sc. (Hons) in Mathematics
Semester Final Examination 2018(Jan-Jun)
Level 3 Semester I, Course Code: CSE 329, Credit: 2.0
Course Title: **Programming Language**

Time: 2 Hours

Full Marks: 60

[N.B. The figure in the right margin indicates the marks for respective question and split answer of any question is unacceptable]

Section-A

Answer any 3 (three) questions

- 1 a) What is HTML? Describe the structure of a HTML document with example. 1+3
b) Define void HTML Element. Describe at least two void HTML element with example. 1+2
c) What are the limitations of HTML? How can you overcome these limitations? 1+2
- 2 a) What is HTML Attribute? Explain the reasons to use an id attribute on an html element with proper example. 3
b) How can you add a video file in your html document? Explain the procedure to handle the situation, when your browser does not support video files. 2+2
c) Describes the tag using src, alt and border attributes. 3
- 3 a) How can you link a HTML page with another HTML page? Explain. 3
b) Define variable. Describes the process of declaration of a variable in Java. 3
c) What is table? Write the HTML code to create the table shown below: 1+3

Gender	Average	
	height(feet)	weight(kg)
Males	5.5	55
Females	5.2	50

- 4 a) What is Object Oriented Programming (OOP)? Explain the terms "Encapsulation" and "Inheritance" with proper example. 2+3
b) Explain the types of text input control field of HTML form with proper example. 3
c) Is Java a platform independent programming language? Explain your answer. 2

Section-B
Answer any 3 (three) questions

- 1
 - a) What is CSS? Explain the basic format to write the CSS document with proper example. 1+3
 - b) Describe the functions of **Child** and **Class** selectors with an example. 2+2
 - c) How can you add an external CSS in your HTML document? Explain. 2
- 2
 - a) What is PHP? Write the advantage of using PHP in web programming. 1+2
 - b) How can you test the type and change the type of a variable? Explain. 3
 - c) Determine how many times the body of each loop will be executed. 2+2

(i) \$m=10;\$n=7; While(&m%\$n>=0) { \$m=\$m+1; \$n=\$n+2; }	(ii) \$n=50; for(\$i=0;\$i<=\$n;\$i=\$i+3) { \$i=\$i-1; }
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- 3
 - a) What is an array? Explain the basic format to create an indexed array and an associative array. 1+3
 - b) Explain the process of sorting the values of an indexed and an associative array with proper example. 2+2
 - c) What is a string? How can you count the number of a substring from a given string? Explain. 2
- 4
 - a) What is DBMS? Write the applications of database system in real world. 1+3
 - b) Consider the following survey report of an international conference 6

Table Name: Survey

ID	Name	Age	Country	Job	Income
1	Bob Smith	28	USA	Programmer	30000
2	Md. Sojib	31	Bangladesh	Teacher	40000
5	Lolit Modi	24	India	Engineer	45000
7	Jane Smith	41	USA	Teacher	38000
8	Md. Rashed	27	Bangladesh	Business	47000
11	Johnson	45	Pakistan	Business	35000
9	Trelok Ray	23	Nepal	Engineer	25000

Now, write SQL queries for the following operations:

- (i) Show all information of the participant in the conference.
- (ii) Show the names of all participants who is a teacher and comes from Bangladesh.
- (iii) Show the details information of all participants whose monthly income are between 35000 and 45000.
- (iv) Show the name of participants whose 2nd character of the name is 'o' and above 25 years old.