(Time: $2\frac{1}{2}$ hours)

[Marks: 75]

Please check whether you have got the right question paper.

N. B.: (1) **All** questions are **compulsory**.

(2) Make **suitable assumptions** wherever necessary and **state the assumptions** made.

(3) Answers to the **same question** must be **written together**.

(4) Numbers to the **right** indicate **marks**.

(5) Draw **neat labeled diagrams** wherever **necessary**.

(6) Use of **Non-programmable** calculator is **allowed**.

1. Attempt _any three_ of the following: 15
a. What is internet? Explain any two applications of internet.
b. Write a short note on domain name server.
c. Write a short note on search engine.
d. Explain the structure of HTML5 file.
e. List different formatting tags. Explain with example any three of them.
f. List and explain different types of cascading style sheets.

2. Attempt _any three_ of the following: 15
a. Explain with example how text based navigation bar is created.
b. What is image map? Explain with example server side image map.
c. List various HTML5 semantic tags. Explain with example any four of them.
d. Explain following attributes of td tag:
   i. rowspan   ii. colspan   iii. width   iv. valign   v. bgcolor
e. Write a HTML5 program to display college admission form.
f. List various tags used to embed audio in a page. Explain with example any two of them.

3. Attempt _any three_ of the following: 15
a. Explain any five special operators of java script.
b. Write html code to display factorial of number entered by user.(use do while loop)
c. What is the purpose of break and continue statement. Give suitable example.
d. Explain regular expression in java script.
e. List different methods of document object. Explain with example any two of them.
f. Explain following event attributes:
   i. onblur   ii. onchange   iii. ondblclick   iv. onkeydown   v. onmousedown

4. Attempt _any three_ of the following: 15
a. How PHP variables are used? Explain with example.
b. Write down the rules to determine the "truth" of any value not already of the Boolean type:
c. Explain doubly quoted strings in PHP. Give suitable example.
d. Explain the ternary operator with example.

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e. Write the purpose of following string methods:
   i. strcasecmp   ii. strrpos   iii. strstr   iv. chop   v. strtolower
f. List and explain functions for inspecting arrays.

5. Attempt _any three_ of the following: 15
a. Explain join with suitable example.
b. List various fetching functions. Explain with example any two of them.
c. List and explain function used to create database programmatically.
d. Write a PHP program to display boolean data from database on checks button.
e. Write down the use of following PHP-MySQL functions
   i. mysql_affected_rows   ii. mysql_data_seek   iii. mysql_fetch_array
   iv. mysql_field_type   v. mysql_insert_id
f. Explain following session functions:
   i. session_register   ii. session_is_registered   iii. session_unset
   iv. session_decode   v. session_id

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