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Department of Computer Science and Engineering
B.Sc. (Engg.) in CSE
Semester Final Examination 2019 (July-December)
Level 3, Semester II, Course Code: CSE 355, Credit: 2.0
Course Title: **Web Engineering**

Time: 1 hours

Total Marks: 60

*[N.B. The figure in the right margin indicates the marks allocated for respective question.
Split answer of any question is not allowed.]*

Section-A

(Answer any **03(three)** from the following questions)

1. (a) How do you link an external CSS file with HTML? Briefly discuss with a proper example. 7
(b) Write down the meaning of the following CSS statements: 3
 - i. `h1, .logo, #val {font-weight: italic; font-family: courier}`
 - ii. `img[alt~=banner] {margin: 5px 10px 7px}`
 2. (a) Apply the following CSS attributes to design HTML elements: (You can design any HTML element/s) 6
 - i. `opacity` ii. `float`(b) Write HTML code snippets that display the following table. [See Carefully] 4
Table 1: Education, Occupation and Monthly Income of five Friends
- | SL | Name | Education | Occupation | Income |
|----------------------------|--------|--|------------|---------------|
| 1 | Boden | Primary | Farmer | €5800 |
| 2 | Alex | Habilitation & Full Prof
PhD | | €10000 |
| 3 | Aono | | Professor | €12000 |
| 4 | Masaki | | Scientist | €11000 |
| 5 | Suzan | | R&D Engg. | €7000 |
| <u>Total Income</u> | | | | €45800 |
3. (a) Define anchor. How do you create an anchor to jump from a paragraph of a page to a specific heading of another page? Use a precise example code. 6
(b) Briefly describe the working principle of World Wide Web. 4
 4. (a) Write a short note on Session & Cookie. 4
(b) How to connect to MySQL database using PHP. Use example codes. 6

Section-B

(Answer any **03(three)** from the following questions)

5. (a) Write a JavaScript program to validate an email that has string “**hstu**” in the domain name. 6
- (b) How do you differentiate between dynamic and static webpage? 4

6. (a) Write down the HTML code snippets to display the following form. 6

Contact Form

Name:

Email:

Mobile:

Sex:

Date of Birth:

Comment:

- (b) Write a short note on *design pattern*. 4
7. (a) Mention the types of loops used in PHP. Write a PHP code snippet to apply *foreach* loop. 5
- (b) Write required PHP codes to authenticate the input data of a login form. 5
- 8 (a) Mention at least five string functions in PHP. Write example code snippets for two functions. 5
- (b) What are the ways of linking JavaScript with web pages? Explain with example. 5