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Department of Computer Science and Engineering
B.Sc. (Hons.) in Physics
Semester Final Examination 2019 (July-December)
Level 2, Semester II, Course Code: CSE 273, Credit: 3.0
Course Title: **Computer Programming Language II**

Time: 1.5 hours

Total Marks: 90

*[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) Write HTML code snippets that display the following table. [See Carefully] 10

Table 1: Education, Occupation and Monthly Income of five Friends

SL	Name	Education	Occupation	Income
1	Alex	Habilitation & Full Prof		€10000
2	Boden	Primary	Farmer	€5800
3	Aono	PhD	Professor	€12000
4	Masaki		Scientist	€11000
5	Suzan		R&D Engg.	€7000
Total Income				€45800

- (b) Apply the following CSS attributes to design HTML elements: (You can design any HTML element/s) 5
- i. Overflow ii. padding

2. (a) Write down the meaning of the following CSS statements: 9
- i. `h1, .name, #val {font-weight: italic; font-family: courier}`
- ii. `p a {text-decoration: underline}`
- iii. `img[alt~=logo] {margin: 5px 10px 7px}`
- (b) How do you link an external CSS file with HTML? Briefly discuss with a proper example. 6

3. (a) Define anchor. How do you create an anchor to jump from the bottom of a webpage to the top? Use a precise example code. 7
- (b) What are the ways of linking JavaScript with web pages? Explain with example. 8
4. (a) Define OOP. What are the major differences between structured programming language and object-oriented programming language? 8
- (b) Consider a class named **student** with data member: **name**, **id**, **address** and method: **setStudentName**. Write JAVA code to implement the class. 7

Section-B

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

5. (a) Write down the HTML code snippets to display the following form. 10

Contact Form

Name:

Email:

Mobile:

Sex:

Date of Birth:

Comment:

- (b) How do you differentiate between dynamic and static webpage? 5

6. Consider a form having three fields: ***Name***, ***Password***, and ***Age***. There is also a submit button named **Sign-Up**. Now write down the HTML and JavaScript codes to implement the form and validate the fields on clicking the **Sign-Up** button considering the following requirements: 15

- Fields should not be empty
- Password will be at least 10 characters in length
- Age should be less than 25

7. (a) How do you define class and object? Write an example Java code to create an object to access the member of a class. 3+4

- (b) Define method overloading. Write the code snippets of two methods in a class to show method overloading. 3+5

- 8 (a) Discuss the following terms with examples: i. *Inheritance* ii. *Polymorphism* 4+4

- (b) What is a constructor? Do you think constructors can be overloaded? If Yes, why? 3+4