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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 <u>03(three)</u> from the following questions)

1. (a) Write HTML code snippets that display the following table. [See Carefully]

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

SL	Name	Education	Occupation	Income
1	Alex	<i>Habilitation</i> & 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)
 - i. Overflow
- ii. padding
- 2. (a) Write down the meaning of the following CSS statements:
 - 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.
- 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.
 - (b) What are the ways of linking JavaScript with web pages? Explain with example.
- 4. (a) Define OOP. What are the major differences between structured programming language 8 and object-oriented programming language?
 - (b) Consider a class named *student* with data member: **name**, **id**, **address** and method: 7 *setStudentName*. Write JAVA code to implement the class.

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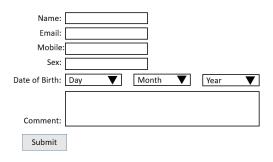
7

Section-B

(Answer any <u>03(three)</u> from the following questions)

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

Contact Form



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

omit 15

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- 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:
 - 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 3+4 access the member of a class.
 - (b) Define method overloading. Write the code snippets of two methods in a class to show 3+5 method overloading.
- 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