



**Daffodil International University**  
**Department of Computer Science and Engineering**  
**Faculty of Science and Information Technology (FSIT)**  
**Final Examination, Semester: Fall-2019**

**Course Code: CSE417 (Day)      Course Title: Web Engineering**

**Time: 2.0 Hours**

**Total Marks: 40**

**[ANSWER ALL THE QUESTIONS.]**

Suppose, you are working as a software developer in a renowned software firm. You are assigned to develop an **existing blog site**. The site you are working on was developed long ago and written from scratch. So, there are security issues as well. Additionally, no framework was used previously at that time. Now, you need to solve few problems to add features. You can write down any necessary assumptions.

1. Solve the following problems using appropriate languages/technologies. [5+10+10]
- To overcome the security flaws the company requires form validation. So, in few words explain form validation.
  - Design the following form using HTML and CSS.
  - Validate using PHP. [Hint: write the server side code]

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2. To update the site you need to use a framework. Now answer the followings: [7.5+7.5]
- What do you understand by MVC? Explain with necessary diagrams.
  - For the blog site explain how MVC model would fit. How to manipulate database when you use MVC?