



# Daffodil International University

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Final Examination Semester: Spring- 2017

Course Code: CSE 417 (DAY) Course Title: Web Engineering

Course Teacher: ALL

Time: 2.0 hours

Full Marks: 40

You have to answer any four (4) of the following questions. Figures in the right-hand margin indicate full marks.

1. Suppose, Daffodil International University is going to organize 16<sup>th</sup> "Foundation" day in the coming year. For this purpose you have to develop a dynamic web page including a sign up form where everyone has to join the grand celebration day and registered by filling up the sign up form. 4+3+3  
=10
  - a. Design a sign up form based on above scenario and validate the form with appropriate code using PHP or JavaScript and connect the form with database.
  - b. What do you mean by resource and object in php? Write the main difference between them.
  - c. When to use GET () and POST () method in php? What purposes it use for and also explain which one is better for use?
2. In PHP visitor information designated to be used across the site can be stored in a session or a cookie. There's no such thing as a simple login system. A login system needs to be designed with proper security in mind, and that takes some now-how. 4+3+3  
=10
  - a. What is a php session and cookies? Write the main difference between them with appropriate example.
  - b. Why php is called loosely type language. Define php variables with its scope.
  - c. Write the main difference between php include () and require () function with example and why we use those functions?
3. JavaScript is one of the most simple, versatile and effective languages used to extend functionality in websites. Uses range from on screen visual effects to processing and calculating data on web pages with ease as well as extended functionality to websites using third party scripts among several other handy features. 2.5+5  
+2.5=  
10
  - a. Are Java and JavaScript same? Explain your opinion. Write the capabilities of JS (JavaScript) program.
  - b. Write a JS code by using prompt box for three integers and find the smallest number among those.
  - c. "JavaScript can change html attributes and styles."- explain your opinion with example.

4. Object-Oriented PHP helps your code stay flexible by allowing it to be only defined once but used in many places. 3+4+3=10

- a. How we can keep our data private based on oop concept? Which principles we should follow to keep our data private? - Explain briefly with example code.
- b. What is an abstract class in php? What are the difference between abstract class and interface?
- c. How many object categories does JS has and which are? What do you mean by instantiating a class in oop?

5. a. Why we use framework for web development? Briefly explain its architecture. 3+3+4=10

b. What are the drawbacks of using MVC? Discuss it in briefly.

c. Write the appropriate html and css code for the following fig.

