	a)	What is Inversion of Control? How does that relate to dependency injection? Explain with suitable example.	7		
	b)	Explain continuous Integration (CI) with its benefits? What are the key practices comprised by Martin Fowler for CI to make efficient development process?	8		
	a)	How MVC solves a design problem. Illustrate your understanding about the flow of MVC with suitable code.	8		
	b)	What is a VCS? Differentiate between distributed VCS and centralized VCS.	7		
	a)	Compare SOA and ROA. How will you design a RESTFul compliant architecture?	4+4		
	b)	What do you mean by Lazy Initialization? Explain its uses in any development framework.	7		
ó.	a)	What do you mean by SQL injection? How can you prevent this problem? Explain with an example scenario.	7		
	b)	List out the key principles in Agile Development model and Explain about different methodologies in Agile Software Development?	8		
7.	Write short notes on: (Any two)				
	a)	Domain Logic and Business Logic			
	b)	Test Driven			
	c)	Convention Vs Configuration			

POKHARA UNIVERSITY

Level: Bachelor	Semester: Fall		Year	: 2017	
Programme: BE			Full Marks: 100		
	olication Development		Pass Marks: 45		
		•	Time	: 3hrs.	

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

</menu>

- a) Which programming language would you choose for developing
 Enterprise Application? Why? Justify with your opinion.
 - b) What is web service? Explain the web services technologies? List out the benefits of using web services.
- 2. a) What is Enterprise Application Framework? Explain Zachman Enterprise Application Framework.
 - b) What is the purpose of using Data Exchange Formats? How would you represent the following XML data in JSON format?

```
<?xml version="1.0" encoding="UTF-8" ?>
<menu>
       <id>file</id>
       <value>File</value>
       <popup>
              <menuitem>
                     <value>New</value>
                     <onclick>CreateNewDoc()</onclick>
              </menuitem>
              <menuitem>
                     <value>Open</value>
                     <onclick>OpenDoc()</onclick>
              </menuitem>
              <menuitem>
                     <value>Close</value>
                     <onclick>CloseDoc()</onclick>
              </menuitem>
       </popup>
```