POKHARA UNIVERSITY

Level :Bachelor Semester: Fall Year :2022

Programme: BE Full Marks : 100

Course: Enterprise Application Development Pass Marks : 45

Time : 3hrs.

Candidate 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.**

1. Convert following xml code to JSON code. 7

<?xml version=”1.0”?>

<personnel>

<person id=”person.one”>

<name> Boss</name>

</person>

<person id=”person.two”>

<name>worker</name>

</person>

</personnel>

b. Draw an Use Case Diagram for Bike Showroom Management System where the main actors are : Super Admin, System User, Cashier, Customer Who perform the different types of use cases such as Manage Bike, Booking, Inventory, insurance, Customer, payment, delivery, Branches Center and many more. 8

2. a) Explain Web Services Data Standard and Interoperability-SOAP, WSDL, UDDI and eBXML with suitable example. 8

b) what do you mean by source code management and continuous integration. 7

3. a) Why use factory design pattern? define with suitable example. 8

b) Define in more details about Business Logic and Domain Logic Layers 7

4. a) What do you mean by SOA and RESTFUL web Services? When to use them. Give example of REST API. 8

b) What is cross site scripting? What are its different types and give some example of cross site scripting 7

5. a) What are the different types of dependency injection. Describe them with suitable example. 7

b) What is TDD? Give an example of Test-Driven Development and define a class **Password** that will satisfy the certain criteria. A condition for Password acceptance. The password should be total length of 8 character. 8

6. a) What is an Enterprise Architecture Framework? What are its different types? Describe Zachman framework in details with suitable example. 8

b) Whey do you need a continuous integration of Development and Testing? 7

7. Write short notes on: (**Any Two**) 2\*5

a) Behavior Driven

b) state-based attacks

c)Continuous Integration and Continuous Delivery