nepal college of information technology

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| Level: Bachelor | Semester: Fall | Year : 2016 |
| Programme:BE | | Full Marks: 100 |
| Course: Advanced Web (Java) | | Pass Marks: 45 |
| Time : 3hrs. |

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| *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. |

1. a) Explain Interface and Implementation and their differences. (10)

b) Write a program as following: (5)

Interface name should be Vehicle. It should have two methods defined, run () and stop (). Create two implementations of Vehicle as Car and Bike.

2. a) Explain about MVC Architecture with a flow diagram and examples. (8)

b) Why is Model – View – Controller important? (7)

3. There is a need to create a table where minor information regarding students is stored.

a) Represent Student as a table with at least five columns in it. (5)

b) Represent the created table as a POJO class in JAVA. (5)

c) Write a MYSQL query to select any two columns from the table. (5)

4. a) Explain Maven as a dependency management tool. (8)

b) How can you import jar files using pom.xml? (7)

5. Draw a neat-labeled diagram for Spring MVC Architecture. (15)

6. a) Explain the role of Dispatcher Servlet in Spring MVC. (8)

b) Explain the role of View Resolver in Spring MVC. (7)

7. Write Short notes on (any two): (2 x 5 = 10)

a) ‘implements’ vs. ‘extends’

b) ‘new’ operator

c) CRUD operations

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