Day	:	Wednesday	Time : 10.00 am to 12.00 Noon
Date	:	08/05/2019 **S-2019-1313**	Max. Marks : 40

N. B. :

    1)   Attempt **ANY FIVE** out of **SEVEN**.

    2)   Figures to the right indicate **FULL** marks.

    3)   Draw neat and labeled diagrams **WHEREVER** necessary.

Q. 1 **a)** What is meant by Enterprise application? Explain with a scenario diagram **(04)**
over Java platform?

      b) Explain the concept of MVC architecture, with suitable diagram. **(04)**

Q. 2 Describe the steps and code snippet for creating a struts-based application, **(08)**
which takes input as user name and on "OK" button click, displays the
message "Hello <user name>!" on a new page.

Q. 3 **a)** What are the different ways to map Hibernate entities? Describe with code **(04)**
snippets.

      b) Define the steps for creating a simple Hibernate application. **(04)**

Q. 4 **a)** What are the advantages of using struts framework? **(04)**

      b) What is POJO class? Explain with an example. **(04)**

Q. 5 What are advantages of EJB? Explain the difference between stateful and **(08)**
stateless EJBs? Elaborate with code snippet example for each.

Q. 6 What is EJB? Explain Entity Beans in EJB, with code snippets. **(08)**

Q. 7 What is the concept of ORM? Describe the Hibernate architecture in detail, **(08)**
using suitable diagram.

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