

**M.Tech. IN ADVANCED INFORMATION
TECHNOLOGY – SOFTWARE TECHNOLOGY
(MTECHST)**

00269

**Term-End Examination
December, 2014**

**MINE-018 : ADVANCED ENTERPRISE WEB
SOLUTIONS**

Time : 3 hours

Maximum Marks : 100

Note :

- (i) *Section I is compulsory and carries 30 marks.*
- (ii) *In Section II, answer any five questions and it carries 70 marks.*
- (iii) *Draw suitable sketches wherever required.*
- (iv) *Italicized figures to the right indicate maximum marks.*

SECTION I

1. ABC College is organizing an International Conference on “Recent Trends in Mobile Cloud Computing”. To make participant registration they want to develop a Web based “Event Registration Application” with the following functionalities. Design two separate models.
- (a) Saving registration data in the database
 - (b) Displaying the data from the database.

The registration form includes the following fields :

- Name
- ID
- Email
- Mobile phone
- College/Institute/Organization
- Designation
- Department
- Country

Problem :

For above (a) and (b) design a web based application using JSP, Servlet and Struts Framework. Write necessary code. *15+15=30*

SECTION II

2. If you want to create your own methods in Action Class, which class implantation is most suitable ? Give some scenario where such a way can be used in real application. Write code for this example. *2+3+9=14*

 3. What is Model-View-Controller (MVC) framework ? Explain with example in Struts. *4+10=14*

 4. What is SessionFactory and Session in Hibernate ? How do we instantiate both of these ? Give hibernate.cfg.xml deployment for both. *4+5+5=14*

 5. What is Object Relational Mapping (ORM) ? What are the ORM solutions available ? Compare any two with Hibernate. *2+3+9=14*

 6. Explain Dispatch Action in detail with an example. *14*

 7. What is meant by Validation in Struts ? What is manual validation and automatic validation ? Explain how they are implemented in Struts. Give example. *2+3+5+4=14*
-