

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 214404**

Roll No.

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## MCA

(SEM. IV) THEORY EXAMINATION 2013-14

### WEB TECHNOLOGY – II

Time : 3 Hours

Total Marks : 100

Note :- Attempt questions from each Section as indicated.

#### SECTION–A

1. Attempt all parts : (2×10=20)
- What are the key features of EJB technology ?
  - Give introduction of Java Message Service (JMS).
  - What is J2EE container ? Discuss.
  - What are advantages of using JSP over servlet ?
  - What directory structure is needed to deploy a servlet ?
  - List five methods in Servlet interface.
  - Write down difference between constants and variables in PHP.
  - Write a program in PHP to demonstrate use of *foreach* loop.
  - List various types of attacks on Internet.
  - What do you mean by Virtual Private Networks (VPN) ?

2. Attempt any **three** parts : **(10×3=30)**
- (a) Write down the steps for writing JMS clients (sender and receiver).
  - (b) What is J2EE ? What are various technologies that come under J2EE ? Discuss any two of them with example.
  - (c) What is servlet ? Write the life cycle of servlet with proper diagram. Also write a program in servlet to perform select operation in database.
  - (d) Discuss various types of data types in MYSQL. Write a PHP code to insert and retrieve data in MYSQL database.
  - (e) What is security threat and attacks. How we can protect our self from these attacks ?

**SECTION-C**

**Note:—Attempt all questions. (10×5=50)**

3. Attempt any **one** part : **(10×1=10)**
- (a) Differentiate various types of beans in EJB. Write a program to create a stateful session bean.
  - (b) Write a program to demonstrate Java Message Service (JMS) in message driven beans.
4. Attempt any **two** parts : **(5×2=10)**
- (a) What is J2EE ? Discuss the architecture and advantages of J2EE in detail.
  - (b) What do you mean by session ? Write a JSP code for creating and accessing session.
  - (c) Write a short note on Java Mail API.

5. Attempt any one part : <http://www.aktuonline.com> (10×1=10)
- (a) (i) Write down the steps to develop and deploy servlet.  
(ii) Write a program in servlet to demonstrate form handling. Give the code of html, web.xml and its java files.
- (b) What is ServletConfig and ServletContext interfaces ? Differentiate them. Also write suitable examples for accessing INIT and CONTEXT parameter.
6. Attempt any one part : (10×1=10)
- (a) Give the introduction to PHP. What are the benefits of PHP ? Write PHP code to demonstrate array handling (i.e. numeric, associative and multidimensional).
- (b) (i) Write a PHP code to demonstrate file inclusion i.e. include ( ) and require ( ).  
(ii) Write a PHP code to delete some data from MYSQL database
7. Attempt any one part : (10×1=10)
- (a) (i) How will you define IT projects and their management in an organization. Describe with diagram.  
(ii) What are the basic services of Internet ? How it can be used as tool for business ?
- (b) Write short notes on :  
(i) Web Security  
(ii) Web Browsing.

