



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

**PAPER ID : 214404**

Roll No.

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**M.C.A.**

(SEM. IV) THEORY EXAMINATION, 2014-15  
**WEB TECHNOLOGY - 2**

Time : 3 Hours]

[Total Marks : 100

**Note:**(1) All questions are compulsory.

(2) All questions carry equal marks.

- 1 Attempt any four parts of the following: (5×4=20)
  - (a) What are the key features of EJB technology?
  - (b) What is MVC? Explain the role of MVC-2 in JSP.
  - (c) What is J2EE container? Explain with J2EE architecture.
  - (d) Write directory structure is needed to deploy a servlet.
  - (e) How to use Servlets in your web application? Explain life cycle of servlet.
  - (f) Differentiate between active & Passive security attacks.
  
- 2 Attempt any four parts of the following: (5×4=20)
  - (a) Give introduction of Java Message Service (JMS). Explain JMS architecture.
  - (b) List various types of attacks on internet. Explain it.

- (c) What do you mean by Virtual Private Networks (VPN)?
  - (d) What are the advantages of using JSP over servlet?
  - (e) What is Cookies? Write a PHP program to set cookies.
  - (f) Explain the characteristics of PHP.
- 3 Attempt any two of the following: (10×2=20)
- (a) What is servlet? Write the life cycle of servlet with proper diagram. Also write a program in servlet to perform select operation in database.
  - (b) Write down the steps for writing JMS clients (Sender and receiver).
  - (c) Discuss various types of data types in MYSQL. Write a PHP code to insert and retrieve data in MYSQL database.
- 4 Attempt any two parts of the following: (10×2=20)
- (a) What is security threat and attacks ? How can we protect our self from these attacks?
  - (b) What isJ2EE? What are various technologies that come underJ2EE? Discuss any two of the with example.
  - (c) What do you understand by ASP? What are its advantages and disadvantages? How ASP is different from ASP.net?

- 5 Attempt any two parts of the following: (10×2=20)
- (a) Differentiate various types of beans in EJB. Write a program to create a stateful session bean.
  - (b) What do you mean byJSP? Explain the Architecture of JSP. How JSP provides performance ?
  - (c) What is ServletConfig and ServletContext interfaces? Differentiate them. Also write suitable examples for accessing INIT and CONTEXT parameter.
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