

**V Semester M.C.A. Examination, December 2016
(CBCS)
COMPUTER SCIENCE
MCA501 : Advanced Web Programming**

Time : 3 Hours

Max. Marks : 70

- Instructions :** 1) **Part – A** : Answer **any five** questions from Part – A, **each question carries 6 marks.**
2) **Part – B** : Answer **any four** questions from Part – B, **each question carries 10 marks.**

PART – A

Answer **any five** questions from Part – A, **each** question carries **six** marks. (5x6=30)

1. What are the three categories of Perl variable ? Explain the string operators and string functions in Perl.
2. Explain the basic pattern matching using regular expression in Perl.
3. What are the four kinds of elements in a JSP document ? Explain the five libraries of the JSTL.
4. What is a Servlet container ? Describe the purpose of the life-cycle Servlet methods.
5. Write the PHP code snippet to
 - a) Display the tables names in the database using the metadata of the database.
 - b) Display the column names of the result using the metadata of resultset.
6. Describe briefly the MVC architecture and the ORM concept used by Rails applications.
7. Write a Perl program which creates a hash table containing country names keys and their capitals as values and perform the following :
 - i) Print all pair of values (country name and capital)
 - ii) Accept country name and print the capital of it.
8. Explain functions, parameter passing and scope of a variable in PHP.

P.T.O.

**PART - B**

Answer **any four** from Part - B, **each** question carries **ten** marks. **(4x10=40)**

9. Explain hashes in Perl. What are the ways in which hash values can be manipulated? Explain the value, key and sort operators in Perl.
10. Explain Servlet support for Cookies and Session Handling.
11. Explain the Classes, Methods, Access control and Inheritance in Ruby.
12. Describe the Database access with JDBC and MySQL. Explain with a sample coding.
13. Explain the basics of Ajax. Describe the Request Phase, the Response document, the receiver phase required for the blur event of the zip code text box to return the city and state to the corresponding text boxes.
14. Write a CGI-PERL program to use a cookie to remember the day of the last login, from the user and display when it is executed.