

MCA  
(SEM III) THEORY EXAMINATION 2023-24  
WEB TECHNOLOGY

TIME: 3HRS

M.MARKS: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

$2 \times 10 = 20$

Q.no.	Question	Marks	CO
a.	What do you meant by internet and its applications?	2	1
b.	Differentiate between HTML and HTML 5.	2	1
c.	Define JavaScript and its application.	2	2
d.	What do you meant by MARQUEE	2	2
e.	Define API and CGI	2	3
f.	What do you meant by Cookies?	2	3
g.	Define AOP.	2	4
h.	What are the various attributes of Tables?	2	4
i.	Why Spring Boot is preferred over any other framework?	2	5
j.	What makes Spring Boot superior to JAX-RS?	2	5

SECTION B

2. Attempt any three of the following:

$10 \times 3 = 30$

a.	Explain the various protocol that are used on internet.	10	1
b.	Design a HTML form for Library Management System.	10	2
c.	Explain the life cycle of servlet.	10	3
d.	What do you meant by Java bean? Is bean life cycle controlled by Spring.	10	4
e.	How to save image in database using Spring Boot?	10	5

SECTION C

3. Attempt any one part of the following:

$10 \times 1 = 10$

a.	Short note on— i) Form ii) List	10	1
b.	Write code in HTML for changing the background color.	10	1

4. Attempt any one part of the following:

$10 \times 1 = 10$

a.	Differentiate between DOM and COM.	10	2
b.	What do you meant by Switch / Case? Explain the various control statement in JavaScript?	10	2

5. Attempt any one part of the following:

$10 \times 1 = 10$

a.	Explain Client –Server architecture with suitable diagram.	10	3
b.	Differentiate between Handling HTTP getRequests and Handling HTTP post Requests.	10	3

6. Attempt any one part of the following:

$10 \times 1 = 10$

a.	Discuss Spring Framework architecture with suitable example.	10	4
b.	Explain the various types of scopes in spring?	10	4

7. Attempt any one part of the following:

$10 \times 1 = 10$

a.	Explain Dependency Injection in Spring Boot.	10	5
b.	Write a code in JavaScript for creating Alert and Confirm Box.	10	5

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QP24DP2\_290 | 22-03-2024 13:24:56 | 117.55.242.132

Printed Pages:02

Sub Code: KCA-021

Paper Id:

Roll No.

MCA  
(SEM III) THEORY EXAMINATION 2022-23  
WEB TECHNOLOGY

Time: 3 Hours

Total Marks: 100

Note: Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A

1. Attempt all questions in brief.

$2 \times 10 = 20$

- a) Discuss Ordered list with an example.
- b) Write HTML code for inserting image on a web page.
- c) Explain the scope of let and Var variable in JavaScript.
- d) Differentiate between Client-Side scripting and Server-Side Scripting.
- e) Describe advantages of JSP over Servlet
- f) Which class has to be extending for creating Servlet?
- g) Explain the importance of IoC in spring.
- h) Differentiate between Bean Factory and ApplicationContext.
- i) Differentiate between spring & spring boot.
- j) Discuss, can we call a java class with annotations as POJO class or not?

SECTION B

2. Attempt any three of the following:

$10 \times 3 = 30$

- a) Explain the following HTML tags with example.
  - (i) <a>
  - (ii) <body>
  - (iii) <img>
  - (iv) <table>
  - (v) <p>

- b) Illustrate Document object Model? How to create text box and button in DOM.
- c) Explain Servlet life cycle in detail.
- d) Illustrate Aspect Oriented Programming in spring framework.
- e) Classify all the annotations those are exclusively used for spring boot applications.

SECTION C

3. Attempt any one part of the following:

$10 \times 1 = 10$

- a) Discuss cascading. Write the various approaches of CSS. List out the properties of CSS with example.
- b) Discuss issues during web designing.

4. Attempt any one part of the following:

$10 \times 1 = 10$

- a) ‘JavaScript is referred to as object-based programming language’. Illustrate with an example.
- b) Construct a JavaScript program to print reverse digit of any number.

QP23DP1\_029 | 20-02-2023 13:26:32 | 125.21.249.98

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Subject Code: KCA021

PAPER ID-410237

Roll No:

CA  
(SEM III) THEORY EXAMINATION 2021-22  
WEB TECHNOLOGY

Time: 3 Hours

Total Marks: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

$2 \times 10 = 20$

Q.no.	Question	Marks	CO
a.	What are the advantages of using JSP over servlet?	2	3
b.	Discuss advantage of spring framework.	2	4
c.	What are the effects of running Spring Boot Application?	2 as	ava
d.	What is AOP?	2	4
e.	Is COM same as DCOM? Comment on it.	2	2
f.	Differentiate between Web browser and Web server.	2	1
g.	Compare CGI and JavaScript.	2	2
h.	What is the difference between forward and sendRedirect tag in JSP?	2	3
i.	Explain main characteristics of Web Team?	2	1
j.	Difference between Spring and Spring Boot.	2	5

SECTION B

2. Attempt any three of the following:

Q.no.	Question	Marks	CO
a.	Can we call a Java class with annotations as a POJO class or not?	10	5
b.	Explain the procedure for creating a website for a corporate world.	10	1
c.	What is the functionality of JSP? What are the advantages of JSP over various server side programming technique?	10	3
d.	Explain the various Form object used by JavaScript. Write JavaScript to demonstrate how data validation can be performed.	10	2
e.	What are the different types of scopes in Spring? Explain in detail.	10	4

SECTION C

3. Attempt any one part of the following:

Q.no.	Question	Marks	CO
a.	What are the advantages and disadvantages of using Spring Boot?	10	5
b.	Define Cascading. Write the various approaches of CSS. List out the properties of CSS.	10	1

4. Attempt any one part of the following:

Q.no.	Question	Marks	CO
a.	What is Document Object Model? How to create text box and button in DOM.	10	2
b.	What is Servlet? Explain the life cycle of Servlet.	10	3

1 | Page

QP23DP1\_029 | 20-02-2023 13:26:32 | 125.21.249.98

**5. Attempt any one part of the following:**

Q no.	Question	Marks	CO
a.	What is Bean in Spring? How bean life cycle can be controlled Spring?	10	4
b.	What do you mean by session tracking? How a session can be created? Explain with example.	10	3

**6. Attempt any one part of the following:**

Q no.	Question	Marks	CO
a.	Write short note on <ul style="list-style-type: none"> <li>i. GET</li> <li>ii. POST</li> <li>iii. PUT</li> <li>iv. DELETE</li> </ul>	10	5
b.	List the properties of form elements and the methods of form elements.	10	1

**7. Attempt any one part of the following:**

Q no.	Question	Marks	CO
a.	What is the difference between JavaScript and Jscript? How will you do client side validation using JavaScript.	10	2
b.	What is Spring framework? Discuss feature of the Spring.	10	4

**MCA  
(SEM III) THEORY EXAMINATION 2021-22  
WEB TECHNOLOGY**

**Time: 3 Hours**

**Total Marks: 70**

**Note: 1. Attempt all Sections. If require any missing data; then choose suitably.**

**SECTION A**

**1. Attempt all questions in brief. 2 x 7 = 14**

a.	What are the various styles in CSS?
b.	Mention the elements located within <head> and </head> element.
c.	What are the objects in JavaScript?
d.	Define protocol suite.
e.	How can we create a database using PHP and MySQL?
f.	What language does MySQL use?
g.	Compare SGML and XML.

**SECTION B**

**2. Attempt any three of the following: 7 x 3 = 21**

a.	What is XML namespace? How is XML parsing done with SAX?
b.	Differentiate between HTML and DHTML. How do you ensure the security of a website at the server side?
c.	What are the communication issues of the web development strategies?
d.	How you can connect MySQL database with the help of PHP? Give one example. Write PHP script for following (any two): <ul style="list-style-type: none"> <li>i. Fill combo box from MySQL database</li> <li>ii. Image upload script</li> <li>iii. Registration script.</li> </ul>
e.	What are the features of JavaScript? Write a program in java script to display "Hello". Also show the usage of FOR statement by taking an example.

**SECTION C**

**3. Attempt any one part of the following: 7 x 1 = 7**

(a)	What do you understand by CSS? Explain different types of CSS with examples.
(b)	Write HTML code to develop a web page having two frames that divide the page into two equal rows and divides the first row into equal columns. Fill each the different background color.

**4. Attempt any one part of the following: 7 x 1 = 7**

(a)	Explain the benefits of PHP? Write a PHP code to demonstrate array handling (i.e. numeric, associative and multidimensional).
(b)	What is Document Type Definition (DTD) in XML? Illustrate with suitable examples.

**5. Attempt any one part of the following: 7 x 1 = 7**

(a)	What do you mean by cookies? How are they created? Can they be used for session management? Explain your answer and use suitable examples wherever required.
(b)	Explain advantages and disadvantages of MySQL. Write steps to establish connection from PHP to MySQL with suitable example.

**6. Attempt any one part of the following: 7 x 1 = 7**

(a)	What are objects in JavaScript? Write a Script to generate random numbers.
(b)	What are the various font properties available in CSS?

**7. Attempt any one part of the following: 7 x 1 = 7**

(a)	Explain the following acronyms <ul style="list-style-type: none"> <li>i. HTTP</li> <li>ii. FTP</li> <li>iii. URL</li> <li>iv. SMTP</li> </ul>
(b)	Explain the idea behind using the CAPTCHA kind of challenge-response authentication in websites.

**MCA  
(SEM-III) THEORY EXAMINATION 2019-20  
WEB TECHNOLOGY**

**Time: 3 Hours**

**Total Marks: 70**

**Note: 1. Attempt all Sections. If require any missing data; then choose suitably.**

**SECTION A**

**1. Attempt all questions in brief. 2 x 7 = 14**

a.	Write the concept of HTTP protocol.
b.	Write the html code to create the table.
c.	Write the features of HTML5.
d.	Write the difference between css2 and css3.
e.	Write the java script code to add two numbers.
f.	Write the uses of xml.
g.	Define cookies.

**SECTION B**

**2. Attempt any three of the following: 7 x 3 = 21**

a.	What do you mean by user centric design? Explain with an example.
b.	Explain the all type of CSS with an example.
c.	Write the java script code for pop up boxes.
d.	Write the PHP code for database connectivity?
e.	Write any five queries for MySQL database and explain with example.

**SECTION C**

**3. Attempt any one part of the following: 7 x 1 = 7**

(a)	How can you set the look and feel in your website? Explain with an example.
(b)	Write the process for planning and publishing of website.

**4. Attempt any one part of the following: 7 x 1 = 7**

(a)	Write the Syntax for XSLT, with an example.
(b)	Create an XML file which contain the information about student performance.

**5. Attempt any one part of the following: 7 x 1 = 7**

(a)	What is DTD? Explain the XML key components with an example.
(b)	What is Parser? Explain all types of Parser with example.

**6. Attempt any one part of the following: 7 x 1 = 7**

(a)	What do you mean by session management? Write the PHP code for session management.
(b)	Explain the oops concept in PHP.

**7. Attempt any one part of the following: 7 x 1 = 7**

(a)	Write the working of PHPmyadmin with example.
(b)	Write the basic commands for php and explain with example.

Printed pages: 02

Paper Id: 214302

Sub Code: RCA 302

Roll No:

MCA

(SEM III) THEORY EXAMINATION 2018-19  
WEB TECHNOLOGY

Time: 3 Hours

Total Marks: 70

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.  
2. Any special paper specific instruction.

SECTION A

1. Attempt all questions in brief.  $2 \times 7 = 14$
- What is www? Explain feature of web 2.0.
  - What do you mean by frame in html? Give example.
  - What do you mean by CSS (Cascade style sheet) in html? Give suitable example.
  - What is PHP myadmin?
  - Explain dialog boxes in java script.
  - What are the differences between require () and include () .
  - What are global variables? How are these variable declared and what are the problems associated with using them?

SECTION B

2. Attempt any three of the following:  $7 \times 3 = 21$
- Explain object in java script. What is event in java script? Write a function in java script to add two number using forms and display the result when user click add button.
  - Explain Array in PHP .Write a program in PHP to display record of three subject marks of three students using multidimensional associative array.
  - Creates an xml document to describe the student information. Description should include the name, fname address, DOB, Mobile No. , email. And validate it with XML Schema.
  - Explain the concept of effective web design. How to make website look and feel better. Explain the term bandwidth, cache, Display resolution in web designing.
  - What do you mean by CSS (Cascade style sheet) in html? Give suitable example. Explain font and Positioning Properties in CSS with example .Write the feature of CSS3.

SECTION C

3. Attempt any one part of the following:  $7 \times 1 = 7$
- Write a java script code of block to print the prime number between given range.
  - What is deference between java script and java? Write a java script code for email validation.

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Printed pages: 2

Sub Code: RCA302

Paper id

Roll No.

MCA

(SEM III) THEORY EXAMINATION 2017-18  
WEB TECHNOLOGY

Time: 3 Hours

Total Marks: 70

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.  
2. Any special paper specific instruction.

SECTION A

1. Attempt all questions in brief.  $2 \times 7 = 14$
- How you will define the term function in Java Script.
  - What do you mean by platform independent?
  - Define CSS.
  - How do you associate function with object using JavaScript?
  - What is advantage of CSS?
  - How do you call a package?
  - Explain static web pages.

SECTION B

2. Attempt any three of the following:  $7 \times 3 = 21$
- What is JavaScript assisted style sheet DOM(JSS DOM)? What are various objects in HTML?
  - Create an XML file designed to contain information about student performance on a module. Each student has a name, arroll no., a student marks and exam marks.
  - Design a HTML form for a railway reservation system.
  - Explain COM and DCOM in detail.
  - Describe the PHP life cycle and how does PHP score over ASP & JSP.

SECTION C

3. Attempt any one part of the following:  $7 \times 1 = 7$
- What is DTD? What is the difference between external and internal DTD? Use suitable example.
  - What is difference between Java and JavaScript? Write a JavaScript function for e-mail address validation, that is, to check if the content has the general syntax of an e-mail or not.
4. Attempt any one part of the following:  $7 \times 1 = 7$
- What is PHP? Describe PHP session in detail.
  - Explain HTTP protocol also discuss about web browser and web server.
5. Attempt any one part of the following:  $7 \times 1 = 7$
- Give the introduction of CSS and also explain manipulating texts and using fonts with suitable example.
  - Explain the overview and feature of HTML5.

4. Attempt any one part of the following:

$7 \times 1 = 7$

- What is MYSQL? How connect MYSQL database with PHP? Explain following operation with example: Create table, Insert data, and select data and delete data in MySQL using PHP.

- Give the object oriented feature in PHP. How create class and object in php?

5. Attempt any one part of the following:

$7 \times 1 = 7$

- What are the differences between Get and post methods in form submitting. Give the case where we can use get and we can use post methods?

- What is XML with syntax? Xml is well- formed Explain. Define XSL and XSLT with suitable example

6. Attempt any one part of the following:

$7 \times 1 = 7$

- Write shot note of following:

- DOM and SAX
- Meta and Div tag
- DHTML and XHTML

- Explain DTD with Example. What is difference between DTD and XML Schema?

7. Attempt any one part of the following:

$7 \times 1 = 7$

- What is PHP? Explain the cookies and session in PHP? How to create, retrieve and delete cookies in PHP with suitable example.

- What is the function in PHP? Design a login from in PHP that is used to provide the authentication for our web pages and the Script executes after submitting the user login button.

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Printed pages: 2

Sub Code: RCA302

Paper id

Roll No.

MCA

(SEM III) THEORY EXAMINATION 2017-18  
WEB TECHNOLOGY

Time: 3 Hours

Total Marks: 70

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.  
2. Any special paper specific instruction.

SECTION A

6. Attempt any one part of the following:

$7 \times 1 = 7$

- What do you mean by Object Oriented Programming with PHP explains its with suitable example?

- Define HTML table, how to declare the HTML forms?

7. Attempt any one part of the following:

$7 \times 1 = 7$

- Explain—i) Database bugs ii) PHP myadmin.

- Short note on—
  - Frames
  - Character entities.

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(Following Paper ID and Roll No. to be filled in your Answer Book)  
**PAPER ID : 1300** Roll No. 

1	2	3	4	5	6	7	8	9	10
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**MCA**  
 (SEM. III) ODD SEMESTER THEORY  
 EXAMINATION 2013-14  
**WEB TECHNOLOGY-I**

*Time : 3 Hours*      *Total Marks : 100*

Note :- Attempt all Sections.

**SECTION-A**

1. Attempt all parts : **(2×10=20)**
- What is Java Collection Framework ?
  - What is the difference between a function and a method ?
  - Why multiple inheritance is not available in Java ?
  - What is the difference between the sleep() and wait() method ?
  - Write an applet to draw square inside a rectangle.
  - What do you mean by platform independent ?
  - How you will define the term function in JavaScript ?
  - What do you understand from the term image ?

- What is a Dense Array ?
- What is the difference between GET and POST method ?

**SECTION-B**

2. Attempt any three parts : **(3×10=30)**
- What is Java Virtual Machine ? Describe the architecture of Java Virtual Machine.
  - What is the use of InetAddress Class ? Differentiate between the URL and URLConnection with suitable example.
  - What is Database Driver ? What are the various types of database drivers ? Write a program to fetch student information from database.
  - What is JavaScript ? Differentiate between Java and JavaScript. How do you associate functions with objects using JavaScript ?
  - What is AJAX ? What are the benefits of AJAX ? Write the various steps to write an AJAX based application.

**SECTION-C**

3. Attempt all parts : **(5×10=50)**
- What do you mean by Exception ? What is checked and unchecked exception ? Explain Exception Chaining.

**OR**

Describe the different stages in the life cycle of an Applet.  
 Distinguish between init() and start() methods.

- What is a Thread ? What are the advantages of Multithreading ? Write a program in Java for creating two threads, one printing multiple of three and other printing multiple of five.

**OR**

What do you mean by Stream Classes ? Write a program in Java for writing into a file and reading from a file using byte streams.

- How is Java's coordinate system organized ? Describe the three ways of drawing polygons.

**OR**

Briefly describe various types of text components provided by Java swing and their usage. Differentiate between the radio button and checkbox by taking suitable example.

- What is Layout Manager ? What are the various types of Layout manager ? Explain Gridbag layout manager by taking suitable example.

**OR**

What is JavaScript assisted style sheets DOM (JSSS DOM) ?  
 What are the various objects in HTML ?

- What do you mean by Cascading Style Sheet (CSS) ? What are the advantages of CSS ? How many ways are there to specify style information in a document ?

**OR**

Create an XML file designed to contain information about student performance on a module. Each student has a name, a roll number, a subject marks and an exam marks.

**MCA**  
**(SEM IV) THEORY EXAMINATION 2018-19**  
**WEB TECHNOLOGY-2**

**Time: 3 Hours****Total Marks: 100**

Note: Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**

- a. Explain how EJB can be made?
- b. Define EAR, WAR and JAR?
- c. Why HttpServlet class is declared abstract?
- d. Write short note on response Wrapper class.
- e. What are the four types of J2EE modules?
- f. What does web module contain?
- g. What is Elements of security?
- h. Write down the general security principles.
- i. How to destroy cookies in PHP?
- j. Write Short Note on: Chr() and strlen().

**SECTION B**

- 2. Attempt any three of the following: 10 x 3 = 30**

- a. Diagrammatically illustrate and discuss the Enterprise Java Bean (EJB) architecture.
- b. How do we handle in JavaScript? What is the difference between Java and JavaScript? Describe the strengths and weakness of JavaScript.
- c. What is the difference between?
  - i) COM and DCOM
  - ii) Dynamic Page and Active Page.
- d. List and discuss the key features of Enterprise Java Bean (EJB) technology.
- e. With a suitable example discuss the process of setting cooking, accessing cookies and deleting cookies using PHP.

- 3. Attempt any one part of the following: 10 x 1 = 10**

- (a) What is the functionality of JSP? What are the advantages of JSP over various server side programming techniques? How does JSP handle runtime exceptions?
- (b) Create an application to store the details of all visitors to a website in the database. The database may later be used to mine to get the user preferences for customization.

- 4. Attempt any one part of the following: 10 x 1 = 10**

- (a) Write a session tracker to track the number of users hitting a Webpage?
- (b) Explain Methods of Servlet Request class and their usage.

- 5. Attempt any one part of the following: 10 x 1 = 10**

- (a) How is a connection between an HTML document being displayed by a browser and a CGI server side program established?
- (b) How do you add a node at the beginning of a list of child nodes? Describe how to save a DOM tree in a file.

- 6. Attempt any one part of the following: 10 x 1 = 10**

- (a) What is functionality of HTTP? Describe the architecture of TCP/IP and UDP? Difference between TCP and UDP.
- (b) Discuss the method of calling Java Beans in JSP with example.

- 7. Attempt any one part of the following: 10 x 1 = 10**

- (a) Explain how to share information using scope object in Servlet?
- (b) Write short note on:
  - a. Include
  - b. Require
  - c. Strlen
  - d. Strcmp
  - e. Set session

**MCA**  
**(SEM. IV) THEORY EXAMINATION 2017-18**  
**WEB TECHMOLOGY**

**Time: 3 Hours****Total Marks: 100**

Note: Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**

- (a) What do you mean by well-known ports?
- (b) What is meant by Name Resolution?
- (c) What Boolean operators are not supported by JavaScript?
- (d) How to create an Object in JavaScript?
- (e) What are the problems with using XML attributes?
- (f) What is the HTML DOM?
- (g) Explain common XMLHttpRequest Object Methods.
- (h) Explain AJAX and its advantages.
- (i) Write a PHP script to display today's date.
- (j) How Cookies are handled in PHP?

**SECTION B**

- 2. Attempt any three of the following: 10 x 3 = 30**

- (a) What are the advantages of JSP over Common Gateway Interface (CGI)? JSP provide better performance, prove this statement.
- (b) Explain data interchange in an XML document. Show example.
- (c) Differentiate between VBScript and JavaScript. Use examples.
- (d) Explain the idea behind using the CAPTCHA kind of challenge-response authentication in websites. What is its use?
- (e) How array is declared in PHP. Also explain various types of array with proper examples.

**SECTION C**

- 3. Attempt any one part of the following: 10 x 1 = 10**

- (a) What is functionality of HTTP? Describe the architecture of TCP/IP?
- (b) What is the role of web sites in today's life? Explain the various security issues that must be considered to construct a commercial web site.

- 4. Attempt any one part of the following: 10 x 1 = 10**

- (a) What do you mean by expression? Explain Boolean, Arithmetic and Relational expression.
- (b) Define DHTML. Explain any four components of DHTML.

- 5. Attempt any one part of the following: 10 x 1 = 10**

- (a) What do you mean by PHP. What are the benefits of PHP? Write PHP code to demonstrate array handling (I.e. numeric, associative).
- (b) What is the role of MVC 2 in JSP Explain with example?

- 6. Attempt any one part of the following: 10 x 1 = 10**

- (a) Explain web development life cycle and its methodologies?
- (b) How array is declared in PHP. Also explain various types of array with proper examples

- 7. Attempt any one part of the following: 10 x 1 = 10**

- (a) What is DTD? Why is it important to specify a DTD for an XML document?
- (b) Explain about CSS:
  - (a) Style Sheet Rules
  - (b) Styling a page
  - (c) Linking Style Sheets
  - (d) Explore Style properties
  - (e) Style Sheets and positioning

M.C.A.

**THEORY EXAMINATION (SEM-IV) 2016-17****WEB TECHNOLOGY**

Time : 3 Hours

Max. Marks : 100

Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.

**SECTION – A**

- 1. Attempt the following:** **10 x 2 = 20**

- (a) Give the important terminologies in HTTP.
- (b) Mention the responsibilities of web team member.
- (c) Write a javascript to print "Good Day" using IF-ELSE condition.
- (d) Give an example for implementing the HTML Links?
- (e) How to declare the HTML Forms?
- (f) Write the java script to print "Good Day" using IF-ELSE condition.
- (g) What is JSP? Write two main usages of it.
- (h) Differentiate GET and POST HTTP requests processing in a servlet.
- (i) Mention the working of PHP processors.
- (j) What do you understand by variable in PHP?

**SECTION – B**

- 2. Attempt any five of the following questions:** **5 x 10 = 50**

- (a) Explain the various internet protocols used for client server communication.
- (b) Discuss the various features of CSS with an example.
- (c) Describe data types functions and objects used in java script with an example.
- (d) Explain AJAX DOM based XML processing Event oriented parsing, XPATH and Template based transformations with suitable example.
- (e) Write the registration form for the creation of email account with all possible validations using java script.
- (f) What is DOM? Explain with necessary examples.
- (g) Explain String manipulations in PHP with examples.
- (h) Explain following functions with examples
  - (i) Current()
  - (ii) next()
  - (iii) prev()
  - (iv) end()
  - (v) reset()
  - (vi) key()
  - (vii) print\_r()

**SECTION – C**

- Attempt any two of the following questions:** **2 x 15 = 30**

3. Develop an interactive web page for student registration using HTML form elements.
4. State and explain the information in a JSP document in detail.
5. How array is declared in PHP. Also explain various types of array with proper examples.

- (e) What is the purpose of CSS Box Model and mention its parts also.
- (f) Are Java and JavaScript the Same?
- (g) Explain concept of Cascading and inheritance Concepts in CSS.
- (h) How the Sessions can be maintained in Session tracking?
- (i) How to change an HTML Element with the help of DOM.
- (j) Discuss the role of Normal Flow Box Layout in CSS and also discuss about positioning in CSS.

**Section-B**

- Q2. Attempt any five questions from this section. (10x5=50)**

- (a) Write a JAVA script to compute the compound Interest for 10 years and display the result in HTML table format.
- (b) Explain how the connection is established between the Server and Client using Response object in ASP.

(2)  
2405/114/139/3475

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

Paper ID : 214426

Roll No. 

M.C.A.

**Theory Examination (Semester-IV) 2015-16****WEB TECHNOLOGY**

Time : 3 Hours

Max. Marks : 100

Note : 7

**Section-A**

- Q1. Attempt all parts of this section. Answer in brief. (2x10=20)**

- (a) What is the difference between TCP and UDP?
- (b) Define the GET() and POST() method.
- (c) What do you understand by markup language? How to implement the HTML Links?
- (d) Compare SGML-based versus XML-based HTML.

(1)

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2405/114/139/3475

- (e) How "Mouseovers" can be created in Dynamic HTML. Give examples to change the Size and Color of the Text in a Web Page
- (d) What are the two methods in ASP request object? Explain with example.
- (e) What are cookies? Design jsp code to count no of times the page is visited?
- (f) Write a php script to accept two strings and check whether equal or not using sticky form.
- (g) Write a php script to create user-defined functions Xsubstr (string, start [, length]) and illustrate the same.
- (h) Create a simple Web Service that converts the temperature from Fahrenheit to Celsius, and vice versa.

**Section-C**

- Attempt any two questions from this section. (15x2=30)**

- Q3. Design a registration form for summer camp. Write a servlet code to insert it in DB.**

(3)  
2405/114/139/3475

P.T.O.

- Q4. How HTTP session objects are used for session tracking? Explain with example. Consider shopping cart as a session attribute.
- Q5. Create a form to accept employee details like name, address and mobile-no. Once the employee information is accepted, then accept LIC information like policy no, name, premium. Display employee detail and LIC detail on the next form.

(4)

2405/114/139/3475

**Printed Pages : 3**

CA404

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

**PAPER ID : 214404**Roll No.        **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.

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- www.aktuonline.com
- (c) What do you mean by Virtual Private Networks (VPN)?  
 (d) What are the advantages of using JSP over serviet?  
 (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 is J2EE? What are various technologies that come under J2EE? 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?

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- 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 by JSP? 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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Roll No.	██
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## MCA

### (SEM. IV) THEORY EXAM. 2014-15

#### WEB TECHNOLOGY

**Note :** Attempt the questions as indicated.

- Discuss the responsibilities of web team member.
- What are the different types of lists available in HTML?
- Give an example of each type.
- Write short notes on the following :
  - DNS
  - Traditional Project Vs. Web Project
  - Develop a simple JSP application that accepts the user's program to find largest among 5 numbers.

age and display a message according to the following rules:

- $\text{Age} < 15$  : Message - You are Kid!
- Age between 16 and 40 : You are Young!
- Age above 40 : You are Old!
- What is XML Schema? Compare XML Schema and XML DTD with neat example.

**Q2.** Attempt any **two** parts of the following : 10x2=20

- Give the introduction to PHP. What are the benefits of PHP? Write the code to demonstrate array handling (i.e. numeric, associative and multidimensional).
- What are Servlet Config and Servlet Context interfaces? Differentiate them. Also write suitable examples for accessing INIT and CONTEXT parameter.
- Create a web page using HTML having frames as follows :
 

Your Name	Punch line etc.
Objective	Display Information here
Personal Information	Display relevant image here
Family Information	Display relevant image here
Educational Information	Display relevant image here
Experience	Display relevant image here
Achievements	Display relevant image here
- Write short notes on the following :
  - VB script
  - PHP
  - Dynamic Page/Active Page
  - AJAX



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## MCA

### (SEM. IV) THEORY EXAM. 2014-15

#### WEB TECHNOLOGY

**Note :** All questions are compulsory.

- What are the various characteristics of web project? What points should be considered in defining a project?
- Differentiate between Web browser and web server.
- How does a web server work?
- Write short notes on the Following :
  - DNS
  - Traditional Project Vs. Web Project
  - What are the Role and Responsibilities of core team?
  - What is team dynamics?

**Q2.** Attempt any **two** parts of the following : 10x2=20

(a) Explain the concept of URL and IP address. Also describe the various fields in IP datagram header.

(c) What is JSP? What are the advantages of JSP over CGI? JSP provide better performance, prove this statement. How can we enable and disable session in JSP?

2. Attempt any two parts of the following : 10x2=20

(a) Give the introduction to PHP. What are the benefits of PHP? Write code to demonstrate array handling (i.e. numeric, associative and multidimensional).

(b) Compare VB Script and JAVA Script by giving their strength over other.

(c) How event handling is done in JAVA SCRIPT? Write a program to create an applet, window completely black in colour to start with that becomes brighter and brighter as you go on clicking the mouse.

(c) Write short notes on the following :
 

- VB script
- PHP
- Dynamic Page/Active Page
- AJAX

3. Attempt any two parts of the following : 10x2=20

(a) Explain on how ASP involved in developing online application with an example?

(b) Explain the properties and concepts of CSS and its uses with an example.

(c) Discuss in detail about JavaScript? Write a JavaScript program to find largest among 5 numbers.

(c) Write short notes on :
 

- VB script
- PHP
- Dynamic Page/Active Page
- AJAX

4. Attempt any two parts of the following : 10x2=20

(a) What are the two methods in Ajax to update part of Web Page? Describe them in detail.

(b) What is AJAX? Explain the role of AJAX in the website development.

(c) What is COM and DCOM? Make the difference table for COM and DCOM. Also describe the importance of COM/DCOM in making commercial website.

**Q4.** Attempt any **two** parts of the following : 10x2=20

(a) What are the two methods in Ajax to update part of Web Page? Describe them in detail.

(b) What is AJAX? Explain the role of AJAX in the website development.

(c) What is COM/DCOM? Make the difference table for COM and DCOM. Also describe the importance of COM/DCOM in making commercial website.

(Following Paper ID and Roll No. to be filled in your Answer Book)  
**PAPER ID : 214404** Roll No.

**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) ?

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5. Attempt any one part : <http://www.aktuonline.com> **(10×1=10)**

- (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)**

- Give the introduction to PHP. What are the benefits of PHP ? Write PHP code to demonstrate array handling (i.e. numeric, associative and multidimensional).
- (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)**

- (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 :
  - Web Security
  - Web Browsing.

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2. Attempt any three parts : **(10×3=30)**
- Write down the steps for writing JMS clients (sender and receiver).
  - What is J2EE ? What are various technologies that come under J2EE ? Discuss any two of them with example.
  - What is servlet ? Write the life cycle of servlet with proper diagram. Also write a program in servlet to perform select operation in database.
  - Discuss various types of data types in MYSQL. Write a PHP code to insert and retrieve data in MYSQL database.
  - 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)**
- Differentiate various types of beans in EJB. Write a program to create a stateful session bean.
  - Write a program to demonstrate Java Message Service (JMS) in message driven beans.
4. Attempt any two parts : **(5×2=10)**
- What is J2EE ? Discuss the architecture and advantages of J2EE in detail.
  - What do you mean by session ? Write a JSP code for creating and accessing session.
  - Write a short note on Java Mail API.

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Time : 3 Hours Total Marks : 100

Note :-Attempt all questions.

1. Attempt any four parts : (5x4=20)

(a) What is World Wide Web ? Illustrate history and growth of web.

(b) What strategies are required to develop a web project ?

(c) Explain any three protocols governing the web application.

(d) What are components required to build web application ?

(e) What do you mean by software-quality assurance ?

(f) Discuss the responsibilities of web team member.

2. Attempt any four parts : (5x4=20)

(a) Explain the structure of an XML document.

(b) How does HTML differ from XML ? Explain with the help of an example.

(c) What is Hypertext Link ? What is the method to link to a specific place within the same document ?

(d) What are the different types of lists available in HTML ? Give an example of each type.

(e) What are advantages of a SAX parser over the DOM parser ?

(f) What is CSS ? Write a CSS rule that makes all the text 2 times larger than the base font of the system.

3. Attempt any two parts : (10x2=20)

(a) (i) Explain the various Form objects used by JavaScript with suitable example.

(ii) Write a JavaScript to demonstrate how data validation can be performed.

(b) Explain how events are handled in JavaScript. Create a JavaScript which has event handlers for the buttons "red", "blue", "green", "yellow" and "orange" which must produce message stating the chosen favorite color. The event handler must be implemented as a function, whose name must be assigned to the onclick attribute of the radio button elements. The chosen color must be sent to the event handler as a parameter.

(c) What is Java Bean ? How will you use the JSP language elements for accessing Bean in your JSP pages ?

4. Attempt any two parts : (10x2=20)

(a) (i) What is JSP ? Explain its role in the development of web sites.

(ii) What are various implicit objects used with JSP ? Explain.

(b) Using Servlet, JSP, JDBC and XML create a web application for a recruitment agency to provide assistance in searching the candidates from its database as per requirements of its various clients. Make necessary assumptions while developing this application.

(c) What do you mean by Cookies ? How the cookies are used to send and retrieve the information from the client ? Explain with a suitable example.

5. Write short notes on any two of the following: (10x2=20)

(a) AJAX (b) VBScript (c) PHP.

**Section – A**

1. Attempt all parts :

10 x 2 = 20

- (a) What is meant by a protocol which governs the web ?
- (b) Define Web and give its applications.
- (c) What do you understand from the term images ?
- (d) State about CSS.
- (e) How will you define the term function in Java Script ?
- (f) Write about VB Script.
- (g) Distinguish between ASP and JSP.
- (h) List out the features of tomcat server.
- (i) Define PHP.
- (j) Narrate the purpose of exception handling.

**Section – B**

2. Attempt any three parts :

3 x 10 = 30

- (a) Elucidate about the following :
  - (i) Web team
  - (ii) Web project

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- (b) Write a CSS rule that changes the colour of all elements containing attributes class = 'green move' to green and shift them down 25 pixels and right by 15 pixels.
- (c) Mention the various objects in JavaScript and explain them.
- (d) How does the data shared between JSP pages ?
- (e) Enlist the various types of operators with an example.

**Section – C**

Attempt all questions :

5 x 10 = 50

3. Attempt any two parts : (2 x 5 = 10)

- (a) Write short notes on ASP.NET.
- (b) How will you develop a Java bean in Java Server Pages ?
- (c) Give an overview about COM/DCOM.

4. Attempt any one part : (1 x 10 = 10)

- (a) Explain the procedure for creating a website for a corporate world.
- (b) Narrate the various types of protocols and explain them.

5. Attempt any one part : (1 x 10 = 10)

- (a) Create a XML file designed to contain information about student performance on a module. Each student has a name, a roll number, a subject mark and an exam mark.
- (b) Give a technical note on DTD.

6. Attempt any one part : (1 x 10 = 10)

- (a) Enumerate the request and response phase in AJAX.
- (b) In a retail shop they sell five different products whose retail prices are as follows :

Product 1 cost is ₹ 200

Product 2 cost is ₹ 150

Product 3 cost is ₹ 300

Product 4 cost is ₹ 320

Product 5 cost is ₹ 400

Write a JAVA Script that reads a series of pairs of numbers as follows :

1. Product number
2. Quantity sold for one day

The program should use a switch statement to help to determine the retail price for each product and calculate the output that displays the total retail value of all the products sold last week. Use a prompt dialog to obtain the product number from the user. Use a sentinel controlled loop to determine when the program should stop looping and display the final result.

7. Attempt any two parts : (2 x 5 = 10)

- (a) Discuss about the file upload in PHP.
- (b) Brief about switch and explain it with an example.
- (c) Define array, function and error in PHP.

5. Write short notes on any two of the following : (10×2=20)

- (a) Database programming using JDBC.  
 (b) Accessing a database from a JSP page.  
 (c) Describe Struts framework with suitable example.

**M.C.A.**  
 (SEM. V) THEORY EXAMINATION 2011-12  
**WEB TECHNOLOGY**

Time : 3 Hours Total Marks : 100

- Note :- Attempt all questions.  
 1. Attempt any four parts of the following : (4×5=20)  
 (a) What are the main elements of a good website ? Explain.  
 (b) Give the differences between developing a site for a corporate world and developing a site for individual.  
 (c) Elaborate the term Protocol. Explain the following with example :  
 (i) FTP  
 (ii) WAP  
 (d) Write down the differences between a traditional project and a Web based Project. Also mention some objectives to develop a Web based project.  
 (e) Why it is so important to identify the target users for Website development ? How do you select contents for your Website ?  
 (f) Explain WEB. Write down the difference between a Static Page and a Dynamic Page.

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5. Write short notes on any two of the following : (10×2=20)

- (a) Database programming using JDBC.  
 (b) Accessing a database from a JSP page.  
 (c) Describe Struts framework with suitable example.

**M.C.A.**  
 (SEM. V) THEORY EXAMINATION 2011-12  
**WEB TECHNOLOGY**

Time : 3 Hours Total Marks : 100

- Note :- Attempt all questions.  
 1. Attempt any four parts of the following : (4×5=20)  
 (a) What are the main elements of a good website ? Explain.  
 (b) Give the differences between developing a site for a corporate world and developing a site for individual.  
 (c) Elaborate the term Protocol. Explain the following with example :  
 (i) FTP  
 (ii) WAP  
 (d) Write down the differences between a traditional project and a Web based Project. Also mention some objectives to develop a Web based project.  
 (e) Why it is so important to identify the target users for Website development ? How do you select contents for your Website ?  
 (f) Explain WEB. Write down the difference between a Static Page and a Dynamic Page.

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**Printed Pages—3**<http://www.aktuonline.com> MCA501(Following Paper ID and Roll No. to be filled in your Answer Book)  
 PAPER ID : 1435 Roll No. 

**M.C.A.**  
 (SEM. V) ODD SEMESTER THEORY  
 EXAMINATION 2010-11  
**WEB TECHNOLOGY**

Time : 3 Hours

Total Marks : 100

Note :—(1) Attempt all questions.

(2) All questions carry equal marks.

1. Attempt any four parts :— (5×4=20)  
 (a) Define a web project. How does it differ with other software projects ?  
 (b) Explain in brief about the following protocols :—  
 (i) SMTP  
 (ii) POP  
 (iii) POP3  
 (iv) IMAP  
 (v) FTP.  
 (c) Discuss cyber crime in the light of Indian IT Act 2000.  
 (d) What skills are required to be a successful Web Project Manager ?  
 (e) Discuss the hidden costs involved in a Web project.

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- (f) Describe following terms :  
 (i) SSL (ii) Secure DNS.
2. Attempt any four parts :— (5×4=20)
- (a) Discuss the various communication issues involved in Web development strategies.  
 (b) What do you mean by test plan ? How do you prepare a successful test plan ?  
 (c) Differentiate between load testing and stress testing strategies.  
 (d) How technological development affects a speed web development project ?  
 (e) What role a client plays in a web project ?  
 (f) What do you mean by Quality Assurance in a web development project ?
3. Attempt any two parts :— (10×2=20)

(A) Write HTML code to create the following table :—

Roll No.	Maths		Physics		Chemistry	
	Theory	Practical	Theory	Practical	Theory	Practical
110001	25	25	25	25	25	25

- (B) (i) Name and explain any five elements of HTML form.  
 (ii) What do you mean by event ? How event handling is done in Java Script ?

- (C) (i) How are objects used in Java Script ?  
 (ii) What is DHTML ? What are its advantages over HTML ?
4. Attempt any two parts :— (10×2=20)

- (a) What do you mean by XML ? Discuss various advantages of XML over HTML. What is the structure of XML document ?
- (b) What is parser in XML ? Explain and compare the different parsers used in XML.
- (c) Explain the use of XML on client side with the help of example.
5. Write short notes on any two of the following :— (10×2=20)
- (a) CGI  
 (b) PERL  
 (c) ASP.

2. Attempt any four parts : (5×4=20)
- (a) Explain the various tags of HTML for table and form with the help of suitable examples.  
 (b) Discuss how frames play a big role in advertising on web.  
 (c) What is DHTML ? How is DHTML different from HTML ?  
 (d) What is XML ? What is the reason behind development of XML ?  
 (e) What is Document Type Definition (DTD) in XML ? Illustrate with suitable example.  
 (f) What is CSS ? In how many ways it can be applied to a HTML Document ?
3. Attempt any two parts : (10×2=20)
- (a) What is difference between JAVA and JAVA SCRIPT ? How is JAVA strongly associated with Internet ? Why do you think JAVA SCRIPT plays important role in web designing ?  
 (b) Explain the various methods and its usage of string object in JAVA SCRIPT. Write a JAVA SCRIPT function to display current date and time using date object.  
 (c) What do you mean by an event ? How event handling is done in JAVA SCRIPT ? Write a program to create an applet window completely Black in colour to start with that becomes brighter and brighter as you go on clicking the mouse.

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

PAPER ID :2143 Roll No. 

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M.C.A.  
 (SEM. V) ODD SEMESTER THEORY EXAMINATION  
 2010-11**WEB TECHNOLOGY**

Time : 3 Hours

Total Marks : 100

Note : (1) Attempt all questions.

(2) All questions carry equal marks.

1. Attempt any four parts : (5×4=20)

- (a) What are the various characteristics of a web project ? What point should be considered in defining a web project ?
- (b) What is virtual management ? How one can manage a virtual team ?
- (c) Explain the concept of URL and IP address. Also describe the various field in IP datagram header.
- (d) What is Domain Name System (DNS) ? Also explain the working of DNS server.
- (e) What do you mean by SMTP and IMAP ?
- (f) Explain the use and working of FTP tool on the internet in brief.

4. Attempt any two parts : (10×2=20)
- (a) What is JSP ? What are the advantages of JSP over CGI ? "JSP provide better performance", prove this statement with suitable example.
- (b) What is COM/DCOM ? Make the difference table for COM and DCOM. Also describe the importance of COM/DCOM in making commercial web site.
- (c) What is a JAVA BEAN ? What are the advantages of JAVA BEANS ? Why is it necessary to understand JAR files before developing a BEAN ?
5. Write short notes on any two of the following : (10×2=20)
- (a) PHP-ODBC  
 (b) Active Server Page (ASP)  
 (c) Remote Method Invocation (RMI).

Note : (i) Attempt all questions.  
(ii) All questions carry **equal** marks.

1. Attempt any **four** parts :  $4 \times 5 = 20$ 

- (a) Why internet is also known as web ? Write down the important phases to web development.
- (b) What do you mean by a protocol ? Name three protocols that govern the web and explain about them.
- (c) Discuss some Indian cyber laws that are different from international cyber laws.
- (d) What is the role of web sites in today's life ?
- (e) Explain the various security issues that must be considered to construct a commercial web site.
- (f) Discuss the various cyber crimes that are possible using the social networking sites.

2. Attempt any **four** parts :  $4 \times 5 = 20$ 

- (a) Why do we need a web team to design a web site ?
- (b) What are the various communication issues to be considered while designing a web site ?

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(i) Describe following terms :

(ii) SSL (iii) Secure DNS.

2. Attempt any **four** parts :—  $(5 \times 4 = 20)$ 

- (a) Discuss the various communication issues involved in Web development strategies.
- (b) What do you mean by test plan ? How do you prepare a successful test plan ?
- (c) Differentiate between load testing and stress testing strategies.
- (d) How technological development affects a speed web development project ?
- (e) What role a client plays in a web project ?
- (f) What do you mean by Quality Assurance in a web development project ?

3. Attempt any **two** parts :—  $(10 \times 2 = 20)$ 

(A) Write HTML code to create the following table :—

Roll No.	Maths		Physics		Chemistry	
	Theory	Practical	Theory	Practical	Theory	Practical
110001	25	25	25	25	25	25

- (B) (i) Name and explain any five elements of HTML form.
- (ii) What do you mean by event ? How event handling is done in Java Script ?

- (C) (i) How are objects used in Java Script ?  
(ii) What is DHTML ? What are its advantages over HTML ?
4. Attempt any **two** parts :—  $(10 \times 2 = 20)$
- (a) What do you mean by XML ? Discuss various advantages of XML over HTML. What is the structure of XML document ?
  - (b) What is parser in XML ? Explain and compare the different parsers used in XML.
  - (c) Explain the use of XML on client side with the help of example.
5. Write short notes on any **two** of the following :—  $(10 \times 2 = 20)$
- (a) CGI
  - (b) PERL
  - (c) ASP.