

JEPPIAAR ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CS6501 INTERNET PROGRAMMING

Question Bank

III YEAR A & B / BATCH: 2016 -20

Vision of Institution

To build Jeppiaar Engineering College as an Institution of Academic Excellence in Technical education and Management education and to become a World Class University.

Mission of Institution

M1	To excel in teaching and learning, research and innovation by promoting the			
	principles of scientific analysis and creative thinking			
M2	To participate in the production, development and dissemination of knowledge and			
	interact with national and international communities			
M3	To equip students with values, ethics and life skills needed to enrich their lives and			
	enable them to meaningfully contribute to the progress of society			
M4	To prepare students for higher studies and lifelong learning, enrich them with the			
	practical and entrepreneurial skills necessary to excel as future professionals and			
	contribute to Nation's economy			

Program Outcomes (POs)

PO1	Engineering knowledge : Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO2	Problem analysis: Identify, formulate, review research literature, and analyze compensation problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
PO3	Design/development of solutions : Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations			
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
PO5 Modern tool usage: Create, select, and apply appropriate techniques, resumdern engineering and IT tools including prediction and modeling to engineering activities with an understanding of the limitations				
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO7	Environment and sustainability : Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.			

PO8	O8 Ethics: Apply ethical principles and commit to professional ethics and responsibil and norms of the engineering practice.			
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.			
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			
PO11	Project management and finance : Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.			
PO12	Life-long learning : Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.			

Vision of Department

To emerge as a globally prominent department, developing ethical computer professionals, innovators and entrepreneurs with academic excellence through quality education and research.

Mission of Department

M1	To create computer professionals with an ability to identify and formulate the engineering problems and also to provide innovative solutions through effective teaching learning process.				
M2	To strengthen the core-competence in computer science and engineering and to create an ability to interact effectively with industries.				
M3	To produce engineers with good professional skills, ethical values and life skills for the betterment of the society.				
M4	To encourage students towards continuous and higher level learning on technological advancements and provide a platform for employment and self-employment .				

Program Educational Objectives (PEOs)

PEO1	To address the real time complex engineering problems using innovative approach with strong core computing skills.
PEO2	To apply core-analytical knowledge and appropriate techniques and provide solutions to real time challenges of national and global society
PEO3	Apply ethical knowledge for professional excellence and leadership for the betterment of the society.

PEO4	Develop	life-long	learning	skills	needed	for	better	employment	and
	entreprer	neurship							

Program Specific Outcomes (PSOs)

Students will be able to

	An ability to understand the core concepts of computer science and engineering and to enrich problem solving skills to analyze, design and implement software and hardware based systems of varying complexity.
PSO2	To interpret real-time problems with analytical skills and to arrive at cost effective and optimal solution using advanced tools and techniques.
	An understanding of social awareness and professional ethics with practical proficiency in the broad area of programming concepts by lifelong learning to inculcate employment and entrepreneurship skills.

BLOOM TAXANOMY LEVELS(BTL)

BTL6: Creating.,

BTL 5: Evaluating.,

BTL 4: Analyzing.,

BTL 3: Applying.,

BTL 2: Understanding., BTL 1: Remembering

SYLLABUS

UNIT I- JAVA Programming

An overview of Java – Data Types – Variables and Arrays – Operators – Control Statements – Classes – Objects – Methods – Inheritance - Packages – Abstract classes – Interfaces and Inner classes – Exception handling - Introduction to Threads – Multithreading – String handling – Streams and I/O – Applets.

UNIT-II - WEBSITES BASICS, HTML 5, CSS 3, WEB 2.0 8

Web 2.0: Basics-RIA Rich Internet Applications - Collaborations tools - Understanding websites and web servers: Understanding Internet - Difference between websites and web server- Internet technologies Overview -Understanding the difference between internet and intranet; HTML and CSS: HTML 5.0, XHTML, CSS 3.

UNIT III - CLIENT SIDE AND SERVER SIDE PROGRAMMING

Java Script: An introduction to JavaScript—JavaScript DOM Model-Date and Objects,-Regular Expressions- Exception Handling-Validation-Built-in objects-Event Handling- DHTML with JavaScript. Servlets: Java Servlet Architecture- Servlet Life Cycle- Form GET and POST actions- Session Handling-Understanding Cookies- Installing and Configuring Apache Tomcat Web Server;- DATABASE CONNECTIVITY: JDBC perspectives, JDBC program example - JSP: Understanding Java Server Pages-JSP Standard Tag Library(JSTL)-Creating HTML forms by embedding JSP code.

UNIT IV - PHP and XML

An introduction to PHP: PHP- Using PHP- Variables- Program control- Built-in functions-Connecting to Database – Using Cookies-Regular Expressions; XML: Basic XML- Document Type Definition XML Schema DOM and Presenting XML, XML Parsers and Validation, XSL and XSLT Transformation, News Feed (RSS and ATOM).

UNIT V - INTRODUCTION TO AJAX and WEB SERVICES

AJAX: Ajax Client Server Architecture-XML Http Request Object-Call Back Methods; Web Services: Introduction- Java web services Basics – Creating, Publishing, Testing and Describing a Web services (WSDL)-Consuming a web service, Database Driven web service from an application – SOAP.

L: 45, T: 15, Total = 60 Periods

Books Referred:

TEXT BOOKS:

1. Deitel and Deitel and Nieto, "Internet and World Wide Web - How to Program", Prentice Hall, 5th Edition, 2011.

2. Herbert Schildt, "Java-The Complete Reference", Eighth Edition, Mc Graw Hill Professional, 2011

REFERENCES:

- R1. Stephen Wynkoop and John Burke "Running a Perfect Website", QUE, 2nd Edition, 1999.
- **R2.** Chris Bates, Web Programming Building Intranet Applications, 3rd Edition, Wiley Publications, 2009.
- **R3.** Jeffrey C and Jackson, "Web Technologies A Computer Science Perspective", Pearson Education, 2011.
- R4. Gopalan N.P. and Akilandeswari J., "Web Technology", Prentice Hall of India, 2011.
- **R5.** Paul Dietel and Harvey Deitel, "Java How to Program", , 8th Edition Prentice Hall of India.
- R6. Mahesh P. Matha, "Core Java A Comprehensive Study", Prentice Hall of India, 2011.
- R7. Uttam K.Roy, "Web Technologies", Oxford University Press, 2011.

Course Outcomes (COs)

C502.1	tand java concepts
C502.2	basic website using HTML and cascading style sheets
C502.3	se of Java scripting for Client side programming and Compare and contrast with server side programming
C502.4	strate simple web page in PHP, and to present data in XML format
C502.5	et java specific web services architecture

INDEX

Unit #	Ref. Book	Page Numbers
Unit 1	Deitel and Deitel and Nieto, "Internet and World Wide Web - How to Program", Prentice Hall, 5 th Edition, 2011. Paul Dietel and Harvey Deitel, "Java How to Program", 8th Edition Prentice Hall of India.	Page 1 -5
Unit 2	Page 6 - 9	
Unit 3	Publications, 2009. R2. Chris Bates, Web Programming – Building Intranet Applications, 3rd Edition, Wiley Publications, 2009. R3. Jeffrey C and Jackson, "Web Technologies A	Page 10 -14
	Computer Science Perspective", Pearson Education, 2011. R2. Chris Bates, Web Programming – Building	
Unit 4	Intranet Applications, 3rd Edition, Wiley Publications, 2009. R3. Jeffrey C and Jackson, "Web Technologies A Computer Science Perspective", Pearson Education, 2011.	Page 15 -18
Unit 5	R2. Chris Bates, Web Programming – Building Intranet Applications, 3rd Edition, Wiley Publications, 2009.	Page 19 -23

R3. Jeffrey C and Jackson, "Web Technologies A	
Computer Science Perspective", Pearson	
Education, 2011.	

UNIT – 1

UNIT I- JAVA Programming

An overview of Java – Data Types – Variables and Arrays – Operators – Control Statements – Classes – Objects – Methods – Inheritance - Packages – Abstract classes – Interfaces and Inner classes – Exception handling - Introduction to Threads – Multithreading – String handling – Streams and I/O – Applets.

S. No.	Question	Course Outcome	Blooms Taxanomy Level
1	What is meant by Object Oriented Programming? OOP is a method of programming in which programs are organized as cooperative collections of objects. Each object is an instance of a class and each class belong to a hierarchy.	C502.1	BTL 1
2	What is a Class? Class is a template for a set of objects that share a common structure and a common behavior.	C502.1	BTL 1
3	What is an Object? Object is an instance of a class. It has state, behaviour and identity. It is also called as an instance of a class.	C502.1	BTL 1
4	What is an Instance? An instance has state, behaviour and identity. The structure and behaviour of similar classes are defined in their common class. An instance is also called as an object.	C502.1	BTL 1
5	What are the core OOP's concepts? Abstraction, Encapsulation, Inheritance and Polymorphism are the core OOP's concepts.	C502.1	BTL 1
6	What is meant by abstraction? Abstraction defines the essential characteristics of an object that distinguish it from all other kinds of objects.	C502.1	BTL 1

	1		1
	What is meant by Encapsulation?		
	Encapsulation is the process of compartmentalising	CE02.1	DTI 1
7	the elements of an abstraction that defines the	C502.1	BTL 1
	structure and behavior. Encapsulation helps to		
	separate the contractual interface		
	of an abstraction and implementation.		
	What are different types of access modifiers		
	(Access specifiers)?	CE03.1	DTI 1
	Access specifiers are keywords that determine the	C502.1	BTL 1
	type of access to the member of a		
	class. These keywords are for allowing		
	privileges to parts of a program such as functions and		
	variables. These are:		
8	<i>public</i> : Any thing declared as public can be accessed		
	from anywhere.		
	Private: Any thing declared as private can't be seen		
	outside of its class.		
	Protected: Any thing declared as protected can be		
	accessed by classes in the same		
	package and subclasses in the other packages.		
	Default modifier: Can be accessed only to classes in		
	the same package.		
	Explain the usage of Java packages. [APR / MAY		
	2017]	C502.1	BTL 1
9	This is a way to organize files when a project consists	C502.1	DILI
	of multiple modules. It also helps		
	resolve naming conflicts when different packages		
	have classes with the same names.		
	Packages access level also allows protecting data		
	from being used by the non-authorized		
	classes.		
	What is method overloading and method		
1.0	overriding? [MAY/JUN 2016] [NOV/DEC 2015] Method overloading: When a method in a class	C502.1	BTL 1
10	=	C302.1	0121
	having the same method name with different arguments is said to be method overloading. Method		
	overriding: When a method in a class		
	having the same method name with same arguments		
	is said to be method overriding.		
	What gives java it's "write once and run		
	anywhere" nature? [NOV/DEC 2015]		
11	All Java programs are compiled into class files that	C502.1	BTL 1
11	contain bytecodes. These byte codes can		
	be run in any platform and hence java is said to be		
	platform independent.		
	provident made on worth.		I

	What is a constructor? What is a destructor?		
	[NOV / DEC 2016]	C502.1	BTL 1
1.0	Constructor is an operation that creates an object	C502.1	DILI
12	and/or initializes its state. Destructor is		
	an operation that frees the state of an object and/or		
	destroys the object itself. In Java, there		
	is no concept of destructors. Its taken care by the		
	JVM.		
	What is finalize () method?		
13	Finalize () method is used just before an object is		
	destroyed and can be called just prior to	C502.1	BTL 1
	garbage collection.		
	What is the difference between String and String		
	Buffer?		
14	String objects are constants and immutable whereas	C502.1	BTL 1
17	String Buffer objects are not. String class		
	supports constant strings whereas String Buffer class		
	supports growable and modifiable		
	strings.		
	What is a package?		
15	A package is a collection of classes and interfaces		
	that provides a high-level layer of access	C502.1	BTL 1
	protection and name space management.		
	Explain working of Java Virtual Machine (JVM)?		
	JVM is an abstract computing machine like any other		
16	real computing machine which first	C502.1	BTL 1
	converts .java file into .class file by using Compiler		
	(.class is nothing but byte code file.) and		
	Interpreter reads byte codes.		
	What is meant by Binding, Static binding,		
	Dynamic binding?	6503.4	DTI 4
	Binding: Binding denotes association of a name with	C502.1	BTL 1
	a class.		
17	Static binding: Static binding is a binding in which		
	the class association is made during		
	compile time. This is also called as <i>Early</i> binding.		
	Dynamic binding: Dynamic binding is a binding in		
	which the class association is not made until		
	the object is created at execution time. It is also called		
	as <i>Late</i> binding. Differentiate between a Class and an Object?		
	The Object class is the highest-level class in the Java		
	class hierarchy. The Class is used to	C502.1	BTL 1
18	represent the classes and interfaces that are loaded by	333-1-	
	a Java program. The Class class is		
	used to obtain information about an object's design.		
	A Class is only a definition or		
	11 Class is only a domination of	<u> </u>	

	prototype of real life object. Whereas an object is an instance or living representation of real life object. Every object belongs to a class and every class contains one or more related objects.		
19	What is meant by Polymorphism? Polymorphism literally means taking more than one form. Polymorphism is a characteristic of being able to assign a different behavior or value in a subclass, to something that was declared in a parent class.	C502.1	BTL 1
20	Define Dynamic Binding? Binding refers to the linking of a procedure call to the code to be executed in response to the call. Dynamic binding (also known as late binding) means that the code associated with a given procedure call is not known until the time of the call at run-time. It is associated with polymorphism and inheritance.	C502.1	BTL 1
21	What is an Abstract Class? [NOV/DEC 2017] [NOV/DEC 2015] Abstract class is a class that has no instances. An abstract class is written with the expectation that its concrete subclasses will add to its structure and behaviour, typically by implementing its abstract operations.	C502.1	BTL 1
22	What is an Interface? Interface is an outside view of a class or object which emphasizes its abstraction while hiding its structure and secrets of its behavior.	C502.1	BTL 1
23	What is an exception? An exception is an event, which occurs during the execution of a program that disrupts the normal flow of the program's instructions.	C502.1	BTL 1
24	What is garbage collection? What is the process that is responsible for doing that in java? Reclaiming the unused memory by the invalid objects. Garbage collector is responsible for this process	C502.1	BTL 1
25	What is the difference between process and thread? [NOV/DEC 2016] Process is a program in execution whereas thread is a separate path of execution in a program.	C502.1	BTL 1

	A Thread is supposable heavy does that sweetly DIOV		1	
	A Thread is runnable, how does that work? [NOV			
	/ DEC 2016] The Thread class' run method normally involves the	C502.1	BTL 1	
26	The Thread class' run method normally invokes the run method of the Runnable	C302.1	DIET	
	type it is passed in its constructor. However, it is			
	**			
	possible to override the thread's run method with the own.			
	List the two methods to search a string.			
27	1. indexOf()			
	2. lastIndexOf()	C502.1	BTL 1	
	What is the use of getBytes() Method?			
	This method has following two forms:			
	getBytes(String charsetName): Encodes this String	C502.1	BTL 1	
	into a sequence of bytes using			
28	the named charset, storing the result into a new byte			
	array.			
	getBytes(): Encodes this String into a sequence of			
	bytes using the platform's default			
	charset, storing the result into a new byte array.			
	What is a thread group?			
	A thread group is a data structure that controls the			
29	state of collection of thread as	C502.1	BTL 1	
	a whole managed by the particular runtime			
	environment.			
	What is serialization?			
	Serialization is the process of writing complete state			
30	of java object into output	C502.1	BTL 1	
	stream, that stream can be file or byte array or stream			
	associated with TCP/IP socket.			
	Give the different types of typecasting in Java			
	with example. [NOV / DEC 2016]			
	If the data types are compatible, then Java will	C502.1	BTL 1	
31	perform the conversion automatically known as			
	Automatic Type Conversion and if not then they			
	need to be casted or converted explicitly.			
	For example , assigning an int value to a long			
	variable.			
	Give an example for a chained exception in Java.			
	[MAY/JUN 2016]	0500.1	DT. 4	
	consider a situation in which a method throws an	C502.1	BTL 1	
32	ArithmeticException because of an attempt to divide			
	by zero but the actual cause of exception was an I/O			
	error which caused the divisor to be zero. The			
	method will throw only ArithmeticException to the			
	caller.			
	PART B			

1	Explain in detail about Multi-threading? [NOV/DEC 2015]	C502.1	BTL 1
2	How to Handle the Exception in Java? [NOV / DEC 2016] [NOV/DEC 2015]	C502.1	BTL 1
3	How interface is declared and how to create thread? [NOV/DEC 2017]	C502.1	BTL 1
4	Explain detail about Java Streams and I/O?	C502.1	BTL 1
5	Discuss the types of inheritance in java. [NOV / DEC 2016]	C502.1	BTL 1
6	Dicuss the concepts of Applets in detail. [NOV/DEC 2017]	C502.1	BTL 1
7	Eplain the types of constructor with examples. [NOV / DEC 2016]	C502.1	BTL 1
8	Explain the use of BufferedREader object to read characters from the console using a program. [NOV / DEC 2016]	C502.1	BTL 1

UNIT - 2

UNIT-II - WEBSITES BASICS, HTML 5, CSS 3, WEB 2.0 8

Web 2.0: Basics-RIA Rich Internet Applications - Collaborations tools - Understanding websites and web servers: Understanding Internet - Difference between websites and web server- Internet technologies Overview -Understanding the difference between internet and intranet; HTML and CSS: HTML 5.0 , XHTML, CSS 3.

S. No.	Question	Course Outcome	Blooms Taxanomy Level
1 2	What is the difference between node and host? A node is any addressable device connected to a network whereas the host is a more specific descriptor that refers to a networked general-purpose computer rather than a single purpose device (such as a printer). What is the purpose of routers?	C502.2	BTL 1
2	Router operates like electronic postal workers that evaluate and forward packets between networks.	C302.2	BILI
3	Define protocol. A protocol is a formal set of rules that must be followed in order to communicate.	C502.2	BTL 1
4	Why are the protocols layered?	C502.2	BTL 1

			1
	Layering protocols simplifies the task of communicating over the network and it allows		
	for reuse of layers that are not specific to a particular application.		
	Define encapsulation.		
5	Placing the data inside a package of headers is known		
	as encapsulation.	C502.2	BTL 1
	Define port.		
	A port is a logical channel to an application running		
6	on a host. ie., The applications	C502.2	BTL 1
	running on the host machines are uniquely identified	55 5 2.2	
	by port numbers.		
	What is meant by Name Resolution?		
	Name Resolution is the process of mapping a		
	hostname to its corresponding IP Address.	C502.2	BTL 1
	One way to translate a hostname to an IP address is		
7	to look it up in a simple text file.		
	The second way is the domain name service, which is		
	a distributed database containing		
	all registered hostnames on the Internet and their IP		
	addresses.		
	Define protocol tunneling.		
8	Protocol tunneling is the process of encapsulating		
	one protocol within another protocol that	C502.2	BTL 1
	operates on the same layer.		
9	Define URI.		
	1. URI (Uniform Resource Identifier): It identifies an		
	object on the Internet.	C502.2	BTL 1
10	What are the components of HTTP URL?		
	The components are host, an optional port, path,		
	filename, section and query string.	C502.2	BTL 1
	Define URL encoding.		
	URL encoding involves replacing all unsafe and		
11	nonprintable characters with a percent sign	C502.2	BTL 1
	(%) followed by two hexadecimal digits		
	corresponding to the character's ASCII value.		
10	Define HTML.		
12	It is a simple page description language, which		
	enables document creation for the web.	C502.2	BTL 1
	What is meant by loop back address?		
13	A zone that enables the server to direct traffic to		
	itself. The host number is almost	C502.2	BTL 1
	always 127.0.0.1.		
14	Define CGI -Common Gateway Interface.		

	A specification for transferring information between a World Wide Web server and a CGI	C502.2	BTL 1
	program. ACGI program is any program designed to accept and return data that conforms to		
	the CGI specification. The program could be written		
	in. any programming language,		
	including C, Perl, Java, or Visual Basic.		
	Write a note on Internet Information Server (IIS).		
	Microsoft's Web server that runs on Windows NT		
15	platforms, In fact, IIS comes bundled	C502.2	BTL 1
	with Windows NT 4.0. Because IIS is tightly		
	integrated with the operating system, it is		
	relatively easy to administer.		
	What are ISAPI (Internet Server API) and NSAPI		
	(Netscape Server API)	0500.0	571.4
	ISAPI (Internet Server API): An API for Microsoft's	C502.2	BTL 1
	IIS (Internet Information Server) Web		
	server. ISAPI enables programmers to develop		
	Web-based applications that run much faster		
1.6	than conventional CGI programs because they're		
16	more tightly integrated with the Web		
	server. In addition to IIS, several Web servers from companies other than Microsoft support		
	ISAPI.		
	NSAPI -Netscape Server API: An API for Netscape's		
	Web servers. NSAPI enables		
	programmers to create Web-based applications that		
	are more sophisticated and run		
	much faster than applications based on CGI scripts.		
	What is API -Application Program Interface?		
	A set of routines, protocols, and tools for building		
17	software applications. A good API	C502.2	BTL 1
	makes it easier to develop a program by providing all		
	the building blocks. A programmer		
	puts the blocks together.		
	What are Style Sheets?		
	Style sheets are collections of style information that	CEO2 2	DTI 1
	are applied to plain text. Style	C502.2	BTL 1
18	information includes font attributes such as type size,		
	special effects (bold, italic, underline), color and		
	alignment. Style sheets also provide broader		
	formatting instructions by specifying values for		
	quantities such as line spacing and left and right margins.		
19	Give the elements to write a script?`		
1)	one the elements to write a script.		
	I .		1

	<pre><script type="text/javascript"> write script here </script> 3. List down the ways of including style information in a document? 1.Linked Styles-Style information is read from a separate file that is specified in the <link/> tag 2.Embedded Styles-Style information is defined in the document head using the <style> and </style> tags. 3.Inline Styles-Style information is placed inside an HTML tag and app lies to allcontent between that tag and it companion closing tag.</pre>	C502.2	BTL 1
20	Define cascading? Cascading refers to a certain set of rules that browsers use to determine how to use the style information. Such a set of rules is useful in the event of conflicting style information because the rules would give the browser a way to determine which style is given precedence.	C502.2	BTL 1
21	What are the style precedence rules when using multiple approaches? Inline styles override both linked style sheets and style information stored in the document head with <style> tag Styles defined in the document head override linked style sheets. Linked style sheets override browser defaults</td><td>C502.2</td><td>BTL 1</td></tr><tr><td>22</td><td>List down font characteristics permitted in Style Sheets. 1.font-family 2.font-size 3.fontweight 4.font-style 5.fontvariant</td><td>C502.2</td><td>BTL 1</td></tr><tr><td>23</td><td>Give some methods of Date Object? [NOV / DEC 2016] getDate(), gatDay(), getHours(), g etMonth(), getMinutes(), getSeconds(), hetFullYear()</td><td>C502.2</td><td>BTL 1</td></tr><tr><td>24</td><td>Define Scriptlets Scriptlets enable you to create small, reusable web applications that can be used in any web page. Scriptlets are created using HTML, scripting and Dynamic HTML. To</td><td>C502.2</td><td>BTL 1</td></tr></tbody></table></style>		

	include them in an HTML document use the				
25	OBJECT> tag. Define URL URL (Uniform Resource Locator): It is a specification for identifying an object such as a file, newsgroup, CGI program or e-mail address by indicating the exact location on the internet.	C502.2	BTL 1		
26	Define URN. URN (Uniform Resource Name): It is a method for referencing an object without declaring the full path to the object.	C502.2	BTL 1		
27	State the difference between internet and intranet. [NOV / DEC 2016] There's one major distinction between an intranetand the Internet: The Internet is an open, public space, while an intranet is designed to be a private space. An intranet may be accessible from theInternet, but as a rule it's protected by a password and accessible only to employees or other authorized users.	C502.2	BTL 1		
28	Define Rich Internet Applications. [MAY/JUN 2016] [NOV / DEC 2016] [APR / MAY 2017] A rich Internet application (RIA) is a Web application designed to deliver the same features and functions normally associated with deskop applications. RIAs generally split the processing across the Internet/network divide by locating the user interface and related activity and capability on the client side, and the data manipulation and operation on the application server side.	C502.2	BTL 1		
29	Why we use XHTML? [NOV/DEC 2017] "XHTML 1.0 is a reformulation of HTML 4.01 in XML, and combines the strength of HTML 4 with the power of XML." This means that, byusing XHTML, you are adding the potential of the power of XML to your Web pages Basically, XHTML is strict HTML.	C502.2	BTL 1		
30	Write appropriate inline CSS to show a section of the HTML document with a font size of 20. [MAY/JUN 2016] html> <html> <head> <title>Playing with Inline Styles</title> </head> <body> I'm a big, blue, strong paragraph </body> </html>	C502.2	BTL 1		
	PART B				

1	Explain in detail about RIA Rich Internet Applications? [NOV / DEC 2016]	C502.2	BTL 1
2	Discuss the HTML and XHTML Tags. [NOV / DEC 2016] [MAY/JUN 2016] [NOV/DEC 2017] [NOV/DEC 2015]	C502.2	BTL 1
3	Explain in detail about CSS? [NOV / DEC 2016] [NOV/DEC 2017] [NOV/DEC 2015]	C502.2	BTL 1
4	Explain in detail about Web Servers in Internet? [NOV/DEC 2015] [APR / MAY 2017]	C502.2	BTL 1
5	Explain about internet technologies in detail. [NOV / DEC 2016]	C502.2	BTL 1

UNIT - 3

UNIT III - CLIENT SIDE AND SERVER SIDE PROGRAMMING

Java Script: An introduction to JavaScript—JavaScript DOM Model-Date and Objects,-Regular Expressions- Exception Handling-Validation-Built-in objects-Event Handling- DHTML with JavaScript. Servlets: Java Servlet Architecture- Servlet Life Cycle- Form GET and POST actions- Session Handling-Understanding Cookies- Installing and Configuring Apache Tomcat Web Server;- DATABASE CONNECTIVITY: JDBC perspectives, JDBC program example - JSP: Understanding Java Server Pages-JSP Standard Tag Library(JSTL)-Creating HTML forms by embedding JSP code.

S. No.	Question	Course Outcome	Blooms Taxanomy Level
1	What is a DOM? [NOV/DEC 2017] A Document Object Model is an application programming interface that defines how javascript programs can access and manipulate the HTML document currently displayed by a browser.	C502.3	BTL 1
2	What is an Event? [NOV/DEC 2015] An event in a browser is an occurrence of potential interest. Example events are the mouse moving over an element. a mouse button being clicked, or a key being pressed. Each type of event has an abbreviated name associated with it.	C502.3	BTL 1
3	Define Intrinsic Event handling. Browser-based java script programs are event-driven.ie, the java script functions are called in response to various user actions, such as clicking a button, or moving the mouse over a certain element.	C502.3	BTL 1
4	What is Event listener in DOM?		

	An event listener is a function that takes a single	C502.3	BTL 1
	argument that is an instance of Event. A		
	call to the addEventListener () method on a node		
	object associates an event listener with a		
	type of event occurring on that node.		
	Differentiate Dynamic document with Static		
	document?		
_		C502.3	BTL 1
5	An HTML document that contains scripting is called	C302.3	BILI
	a dynamic document whereas a simple HTML		
	document without scripting is known as a static		
	document.		
	What are the stages in a Servlet life cycle?		
6	1.init()		
	2.service()	C502.3	BTL 1
	3.destroy()		
	What are Servlets? [NOV / DEC 2016] [NOV/DEC		
	2017]		
	A small program that runs on a server, the term usually	C502.3	BTL 1
_	refers to a Java applet that runs within a Web server		
7	environment. This is analogous to a Java applet that		
	runs within a Web browser environment. Java servlets		
	are becoming increasingly popular as an alternative to		
	CGI programs. The biggest difference between the two		
	is that a Java applet is persistent.		
	What is a Session?		
	A collection of HTTP requests all associated with a		
8	single session ID is known as a session. Each HTTP	C502.3	BTL 1
	request is examined by the server to see if it contains		
	a special identifier known as a session ID.		
	What are Cookies? [NOV/DEC 2015]		
	A cookie is a Name-value pair that a web server		
9	1 -	C502.3	BTL 1
	sends to a client machine as part of an HTTP	C302.3	DIE I
	response, specifically through the Set-Cookie header		
	field. Browsers will store the cookie pairs found in		
	the response in a file on the client machine.		
	What are the actions involved in a		
	doGet()method?		
10	1.Set the HTTP Content-Type header of the response.	C502.3	BTL 1
	2.Obtain a PrintWriter object from the		
	HttpServletResponse parameter		
	object. 3.Output a valid HTML document to the		
	PrintWriter object.		
	4.Close the PrintWriter object.		
	Illustrate the general steps to run a servlet.		
11	1. Compile the servlet using an appropriate compiler		
	version.	C502.3	BTL 1
L			1

	2.Copy the resulting .class file to the appropriate		
	directory for our javaservlet		
	capable server.		
	3.Start the server		
	4. Navigate to the URL corresponding to the servlet.		
	Define a parameter name or value?		
	A parameter name or value can be composed of any		
	sequence of 8-bit characters, including control	C502.3	BTL 1
12	characters and other nonprinting characters. if a name		
	or value contains any nonalphanumeric characters		
	then the name or value will undergo a transformation		
	known as url encoding.		
	How to terminate a Session?		
	The Http Session interface defines a	C502.3	BTL 1
	setMaxInactiveInterval(int interval)method that takes	C302.3	DILI
13	an integer argument interval representing a number		
	of seconds. if more than interval seconds elapse		
	between any two HTTP requests to the servlet from		
	the user represented by this Http Session object, then		
	the users session will expire before the second of		
	these two requests can be processed.		
	Define Java Server Pages?		
	It can be defined as one instantiation of a class of		
1.4	related technologies that facilitate	C502.3	BTL 1
14	separate development of a website's presentation and		
	logic. The key contribution of		
	these technologies is to embed program code related		
	to presentation within a document.		
	What is a Scriplet?		
15	A Scriplet is a fragment of java code that is		
	embedded within the JSP document.	C502.3	BTL 1
	What are the drawbacks of two-step approach in		
	JSP over direct interpretation?		
16	1.Debugging	C502.3	BTL 1
	2.Delay during the first time a JSP document is		
	requested.		
	Define a Web Application?		
	To implement larger tasks, a large collection of		
	resources such as Servlets, JSP	C502.3	BTL 1
	documents, Utility and Support Java Classes, Static	C302.3	
17	HTML documents, Style Sheets, JavaScript files,		
	Images are needed that work together in order to		
	provide what appears to an end user to be a single		
	software application Such a collection of resources		
10	is known as aweb application.		
18	Write the steps for installing a Web Application?		

	1.Create a directory under the webapps subdirectory. 2.Place the JSP document in the new	C502.3	BTL 1
	subdirectory. 3.Deploy the application to the sever.	C302.3	DIEI
	Name the three types of information available in a		
	valid JSP document?		
19	1.JSP markup	C502.3	BTL 1
	2.Expression Language(EL)expressions		
	3. Template data		
	What are the two contexts by which an EL		
20	expression can be invoked?		
	1.Within template data	C502.3	BTL 1
	2. Within certain attribute values in JSP markup		
	What are the Literals that can be used in a EL?		
21	1.The Booleans-True and False		
	2.Decimal,Integer and Floating point	C502.3	BTL 1
	3.Reserved word-Null		
	Name the reserved words in EL?		
22	1.and 2.div 3.empty		
	4.eq 5.false 6.ge	C502.3	BTL 1
	7.gt 8.not 9.null		
	What is the function of EL implicit objects		
	pageScope and requestScope?	CEO2 2	DTI 4
23	pageScope-Values accessible via calls to	C502.3	BTL 1
	page.getAttribute()		
	requestScope- Values accessible via calls to		
	requestpage.getAttribute()		
	Name the two types of directives available for use in a JSP document?		
		C502.3	BTL 1
	1.Page- The page directive(directive. page element) has a variety of attributes	C302.3	DILI
24	that may be set.		
	2.Include-The include directive(directive. include		
	element) imports text from		
	another file into the JSP document at the point at		
	which the directive appears.		
	What is known as a Translation Unit?		
	A top-level JSP document plus all of the segments it		
	includes either directly or indirectly	C502.3	BTL 1
25	through include directives in segments is known as a		
	translation unit, because the translator		
	effectively assembles all of the text from these files		
	into a single JSP document which is then		
	translated.		
26	What are the three categories of JSP element		
20	types?	6500.0	DTI 6
	1.Scripting	C502.3	BTL 1

	2.Directive		
	3.Action		
27	Explain the JSP action element? It is an element that is translated into javaservlet code that performs some action. These elements provide standard actions ie, the actions that are required by the JSP specification to be provided by any JSP-compliant container. The JSP tag library mechanism allows additional action elements to be used within a JSP document, which provide custom actions.	C502.3	BTL 1
28	Give some JSTL Core actions and their functions. set-Assign a value to a scoped variable remove-Destroy a Scoped variable url- Create a URL with query string forEach- Iterate over a collection of items	C502.3	BTL 1
29	Define a Scoped variable. It is a non implicit EL variable, that is an attribute of one of the page request session, or application objects. The object containing the attribute is called the scope of the variable and hence the name scoped variable	C502.3	BTL 1
30	What are Servlets? A small program that runs on a server, the term usually refers to a Java applet that runs within a Web server environment. This is analogous to a Java applet that runs within a Web browser environment.	C502.3	BTL 1
31	Explain the servlet interface and its methods. [NOV / DEC 2016] Servlet interface provides commonbehaviorto all theservlets. Servlet interface defines methods that all servlets must implement. Servlet interface needs to be implemented for creating any servlet (either directly or indirectly).	C502.3	BTL 1
32	Write appropriate JS code to remove an element from a DOM. [MAY/JUN 2016]	C502.3	BTL 1
33	Write the code segment to store current server time in session using Java Servlet API. [MAY/JUN 2016] The Session Tracking API, as we call the portion of the Servlet API devoted to session tracking, should be supported in any web server that supports servlets. The level of support, however, depends on the server. The minimal implementation provided by the servlet	C502.3	BTL 1

	classes in JSDK 2.0 manages sessions through the use of persistent cookies. A server can build on this base to provide additional features and capabilities.		
	PART B		
1	Explain in detail about DOM Model? [NOV/DEC 2015]	C502.3	BTL 1
2	Discuss the concept of Handling in DOM. [APR / MAY 2017]	C502.3	BTL 1
3	Explain in detail about Java Servlet Life Cycle?	C502.3	BTL 1
4	Discuss the Java Database Connectivity. [MAY/JUN 2016] [NOV/DEC 2017] [NOV/DEC 2015]	C502.3	BTL 1
5	Explain in detail about Java Serve Pages scripting components with examples? [NOV / DEC 2016] [NOV/DEC 2017]	C502.3	BTL 1
6	Write a DHTML program to handle the user click event. [NOV / DEC 2016]	C502.3	BTL 1
7	Explain the use of cookies for tracking requests with a program. [NOV/DEC 2017]	C502.3	BTL 1

UNIT – 4

UNIT IV - PHP and XML

An introduction to PHP: PHP- Using PHP- Variables- Program control- Built-in functions-Connecting to Database – Using Cookies-Regular Expressions; XML: Basic XML- Document Type Definition XML Schema DOM and Presenting XML, XML Parsers and Validation, XSL and XSLT Transformation, News Feed (RSS and ATOM).

S.	Question	Course Outcome	Blooms
No.			Taxanomy
			Level
	What is PHP? [NOV / DEC 2016] [NOV/DEC		
	2017] [NOV/DEC 2015]		
	Hypertext Preprocessor is open source server-side	C502.4	BTL 1
	scripting language that is		
1	widely used for web development. PHP scripts are		
	executed on the server. PHP allows		
	writing dynamically generated web pages efficiently		
	and quickly. The syntax is mostly		
	borrowed from C, Java and perl. PHP is free to		
	download and use.		
2	What is PEAR in php?		
	PEAR(PHP Extension and Application Repository) is		
	a framework and repository for reusable PHP	C502.4	BTL 1
	components. PEAR is a code repository containing		

	all kinds of php code snippets and libraries. PEAR also offers a command-line interface that can be used to automatically install "packages".		
3	Explain how to submit form without a submit button. We can achieve the above task by using JavaScript code linked to an event trigger of any form field and call the document.form.submit() function in JavaScript code.	C502.4	BTL 1
4	Difference between Echo vs. print statement. echo() and print() are language constructs in PHP, both are used to output strings. The speed of both statements is almost the same. echo() can take multiple expressions whereas print cannot take multiple expressions. Print return true or false based on success or failure whereas echo doesn't return true or false.	C502.4	BTL 1
5	Difference between \$message vs. \$\$message in PHP. \$message is a variable with a fixed name. \$\$message is a variable whose name is stored in \$message. If \$message contains "var", \$\$message is the same as \$var.	C502.4	BTL 1
6	Explain the different types of errors in PHP. Notices, Warnings and Fatal errors are the types of errors in PHP Notices: Notices represents non-critical errors, i.e. accessing a variable that has not yet been defined. By default, such errors are not displayed to the user at all but whenever required, you can change this default behavior. Warnings: Warnings are more serious errors but they do not result in script termination. i.e calling include() a file which does not exist. By default, these errors are displayed to the user. Fatal errors: Fatal errors are critical errors i.e. calling a non-existent function or class. These errors cause the immediate termination of the script. Explain the importance of the function htmlentities. The htmlentities() function converts characters to HTML entities.	C502.4	BTL 1
7	What is MIME? MIME - Multi-purpose Internet Mail Extensions.		

Web servers and browsers have a list of MIME types, which facilitates files transfer of the same type in the same way, irrespective of operating system they are working in. A MIME type has two parts: a type and a subtype. They are separated by a slash (.). MIME type for Microsoft Word files is application and the subtype is msword, i.e. application/msword. What is the difference between PHP and JavaScript? The difference lies with the execution of the languages. PHP is server side scripting language, which means that it can't interact directly with the user. Whereas, JavaScript is client side scripting language, that is used to interact directly with the user. What does ODBC do in context with PHP? PHP supports many databases like dBase, Microsoft SQL Server, Oracle, etc. But, it also supports databases like filePro, FrontBase and InterBase with ODBC connectivity. ODBC stands for Open Database connectivity, which is a standard that allows user to communicate with other databases like Access and IBM DB2. What are XML Parsers? [NOV/DEC 2017] [NOV/DEC 2015] XML Parsers are used to check whether the document is well formed and valid. How is XML parsing done with SAX? A SAX parser is a mechanism for transforming an XML text document into stream of events corresponding to the markup and character data contained in the original document. Explain Event-oriented parsing. In this parsing, Parser interacts with an application as its reads an XML document when certain events occur and this approach is used by SAX (Simple API for XML) based parsers. What are the types of XML Parsers? There are two types • Validating Parsers		MIME types represents a standard way of classifying file types over Internet.	C502.4	BTL 1
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variating raisers	13		C502.4	BTL 1
1 TOH Y HINGHING I HIDOID		Non-Validating Parsers		

	What is well-formed document?		
14	An HTML or XML document is said to be well		
	formed when it contains elements with proper	C502.4	BTL 1
	tagging and no syntactic errors.		
	What is DTD?		
	A Document Type Declaration enables an XML		
15	parser to verify whether an XML document is valid,	C502.4	BTL 1
	i.e. its elements contain the proper attributes in		
	the proper sequence.		
	What is XML Namespace? [NOV / DEC 2016]		
	An XML namespace is a collection of element and		
16	attribute names. Each namespace has a unique name	C502.4	BTL 1
10	that provides a means for document authors to		
	unambiguously refer to elements with the same name		
	in order to prevent collisions.		
	What is the use of XML declaration?		
	XML declaration is a special tag used to specify the		
	version of XML used to write the	C502.4	BTL 1
17	document and optionally some additional		
	meta-information about the document such as the		
	character set/encoding used. For e.g the syntax of		
	XML declaration is		
	XML VERSION="1.0""?		
	What is the purpose of XSLT? [MAY/JUN 2016]		
	• The XSLT stands for XSL Transformations and		
18	XSL stands for extensible Style	C502.4	BTL 1
	sheet Language.		
	• The XSLT is used for defining the XML document		
	transformation and presentations.		
	What are XML Schemas?		
	XML Schemas are part of the XML vocabulary and		
19	its addresses the standard for XML document	C502.4	BTL 1
	validation by including a definition of a collection		
	of standard data types which are used to describe data		
	structures.		
	What are built-in data types for XML Schema?		
	The data types defined by the XML Schema	0500.1	57.4
20	specification itself are called	C502.4	BTL 1
	its built-in data types.		
	For e.g : xsd:integer, xsd:decimal, xsd:string,		
	xsd:boolean, xsd:float etc,		
	What Do You Mean by DTD IN XML?		
21	• DTD means Document Type Definition.	CEO2 4	DTL 4
	• DTD file is similar to CSS file, because DTD also	C502.4	BTL 1
	contains only styles.		

	• DTD contains various styles which are to be applied		
	in XML		
	document.		
	• Like .CSS file .DTD file also should be linked with		
	XML program.		
	• Styles in XML program should be save with .xsl		
	(Xml Style Sheet Language) extension. Define XML.		
22	XML is a meta- markup language that provides a	C502.4	BTL 1
22	format for describing structured data. This facilitates more structured declarations of content and	C302.4	DILI
	more meaningful search results across multiple		
	platforms.		
	Define DTD. A DTD is a set of rules that specifies have to use		
22	A DTD is a set of rules that specifies how to use	C502.4	BTL 1
23	XML markup. It contains specifications for each	C302.4	DILI
	element, including what the element's attributes are, what values the attributes can take on and what		
	elements can be contained in others.		
	When should the super global arrays in PHP be		
	used? Which super global array in PHP would	C502.4	BTL 1
	contain a HTML form's POST data? [MAY/JUN]	CJ02.4	DILI
	2016]		
24	COLODALC : DUD		
24	\$GLOBALS is a PHP super global variable which is		
	used to access global variables from anywhere in the		
	PHP script (also from within functions or methods).		
	PHP stores all global variables in an array called		
	\$GLOBALS[index]. The <i>index</i> holds the name of the		
	variable.		
	PART B		
1	Explain in detail about how to connect database with	C502.4	BTL 1
	PHP? [NOV / DEC 2016]		
2	Discuss the PHP variables and program control.	C502.4	BTL 1
	[MAY/JUN 2016] [NOV/DEC 2015]		
3	Explain in detail about Document Type Definition?	C502.4	BTL 1
4	Discuss the concepts of XML Schema, built in and user	C502.4	BTL 1
	defined data types in detail. [NOV / DEC 2016]		
	[MAY/JUN 2016] [NOV/DEC 2017] [NOV/DEC		
	2015]		
5	Discuss the XSL and XSLT Transformation. [C502.4	BTL 1
	NOV/DEC 2017]		
6	Explain the string comparison capability of PHP using	C502.4	BTL 1
	regular expressions with an example. [NOV / DEC 2016]		
	[NOV/DEC 2017]		

UNIT V - INTRODUCTION TO AJAX and WEB SERVICES

AJAX: Ajax Client Server Architecture-XML Http Request Object-Call Back Methods; Web Services: Introduction- Java web services Basics – Creating, Publishing, Testing and Describing a Web services (WSDL)-Consuming a web service, Database Driven web service from an application – SOAP.

S. No.	Question	Course Outcome	Blooms Taxanomy
	Define a Web Service. [NOV/DEC 2017] [NOV/DEC 2015]		Level
1	A web service is a server application that uses HTTP to accept and return SOAP documents, where the content of the documents is specified by a WSDL document that uses embedded XML Schema markup to define data types.	C502.5	BTL 1
2	Describe the implementation of Web Service. A web service servlet accepts HTTP requests from clients and provides an HTTP response for each request received. It expects that each HTTP request it receives will contain a SOAP XML document in the body of the request. This SOAP document specifies an operation to be performed by the web service and supplies input data for that operation.	C502.5	BTL 1
3	Define a WSDL. [NOV / DEC 2016] A Web service definition language document for a web service identifies the operations provided by the web service, what the input data to each operation is, and what output data is produced by the operation.	C502.5	BTL 1
4	What is known as the Service Endpoint Interface? [NOV / DEC 2016] The starting point for writing a web service using the JWSDP 1.3 tools is writing a Java interface that specifies the operations that will be provided by the service(essentially an API for the service). This is known as the service endpoint interface.	C502.5	BTL 1
5	Write the basic rules for service endpoint interface. 1.the interface must extend the java.rmi.Remote interface	C502.5	BTL 1

			1
	2.Every method in the interface must throw java.rmi.RemoteException		
	3.Every method parameter and every return value must conform to certain restrictions		
	on the allowed data types		
	4. The interface must not contain any public static final		
	declarations.		
	Define XML Schema.		
	XML schema defines the structure of XML	C502.5	BTL 1
	documents. A key contribution of XML schema is its definition of a collection of standard data	C302.3	DILI
6	types. Each data type definition		
	includes a specification of the range of values that can		
	be represented by the data type		
	and details on how to represent those values as		
	strings.		
7	What is a deployment descriptor?		
	Deployment descriptor specifies various configuration parameters.	C502.5	BTL 1
	Define Simple Object Access Protocol.(SOAP).	C302.3	5121
	[MAY/JUN 2016]		
	SOAP is an XML vocabulary that can be used to	C502.5	BTL 1
8	communicate data and was originally		
	designed for communicating structured data that		
	might be found in object-oriented		
	programs. What is PPC Panyagantation?		
	What is RPC Representation? RPC is the generic term for the type of		
9	communication used for web service operations. The	C502.5	BTL 1
	client makes a call to a method or procedure that		
	resides on another machine. This concept		
	has been implemented in many ways by many		
	programming languages and operating		
	systems Define a Struct?		
10	A struct can be thought of as an instance of a class that		
	consists entirely of public instance	C502.5	BTL 1
	variables. It is simply a container in which data can be		
	stored in named variables.		
	What is literal-encoding?		
11	An encoding conforming with the XML schema contained in the we service's WSDL over SOAP 1.1	C502.5	BTL 1
11	encoding of data. A literal encoding is indicated within		- ·
	a WSDL by specifyingliteral for the use attribute of a		
	soap:body element.		
12	Name the two operations defined by WSDL 1.1.		

	1.RPC	C502.5	BTL 1
	2.Document		
	Define Serialization?		
	The flexibility in converting from an internal form of		
13	data to a SOAP representation is	C502.5	BTL 1
13	known as serialization and it comes at the price of		
	forcing the software that deserializes		
	a SOAP representation to be prepared to accept SOAP		
	documents in a variety of forms.		
	Describe the Java support for SOAP?		
14	Java provides support for creating and manipulating		
	SOAP documents through SAAJ, the	C502.5	BTL 1
	SOAP with Attachments API for Java technology. This		
	API is included with JWSDP1.3.		
	What are Serializable objects? When an object is serialized, the data contained within		
15	the object is transformed into a stream of bytes	C502.5	BTL 1
10	representing the data. This object data stream can then		
	be stored in a file, transmitted over a communications		
	network, or treated like any other stream of data.		
	Name the methods of HttpServletRequest		
16	interface?		
10	String getParameter(string name), string[]	C502.5	BTL 1
	getParameterValues(String name), cookie[]		
	getCookies(), HttpSession getSession(boolen, create)		
	What are directives?		
	Directives are messages to the jsp container that	0500.5	571.4
17	enables the programmer to specify page	C502.5	BTL 1
	settings, to include content from other resources and		
	to specify custom-tag libraries for use		
	in JSP.		
	Name the Header Child Element Attributes in SOAP?		
18	1.must understand	C502.5	BTL 1
	2.encoding style		
	3.role		
	4.relay		
	What is the use of JSP?		
19	JSP enable web application programmers to create		
19	dynamic content by reusing predefined components	C502.5	BTL 1
	and by interacting with components using server side		
	scripting.		
	Differentiate a Simple type with a Complex type		
20	A simple type is a data type whose values are		D.T. d
	represented in XML documents by character data,	C502.5	BTL 1
	while a complex type is represented using markup.		

21	Define CDATA? Character data(CDATA) is a text in a document that should not be parsed by the XML parser. Any entities included in the CDATA block will not be replaced by their value andmarkup (such as HTML tags) will not be treated as markup.	C502.5	BTL 1
22	Describe the structure of SOAP element? [MAY/JUN 2016] It consists of the following: 1.The SOAP envelope element 2.The SOAP header element 3.The SOAP body element 4.The SOAP fault element	C502.5	BTL 1
23	Define JAX-RPC? JAX-RPC (Java API for XML-Based RPC) is an application program interface (API) in the Java Web Services Developer Pack (WSDP) that enables Java developers to include remote procedure calls (RPCs) with Web services or other Web-based applications. JAXRPC is aimed at making it easier for applications or Web services to call other applications or Web services.	C502.5	BTL 1
24	What is SOAP Envelope element? The required SOAP Envelope element is the root element of a SOAP message. This element defines the XML document as a SOAP message. Example This element defines the XML document as a SOAP message. Example </td <td>C502.5</td> <td>BTL 1</td>	C502.5	BTL 1
25	What are Serializable objects? When an object is serialized, the data contained within the object is transformed into a stream of bytes representing the data. This object data stream can then be stored in a file, transmitted over a communications network, or treated like any other stream of data.	C502.5	BTL 1
26	Name the methods of HttpServletRequest interface? String getParameter(string name), string[] getParameterValues(String name), cookie[] getCookies(), HttpSession getSession(boolen, create)	C502.5	BTL 1

27	What is RPC Representation? RPC is the generic term for the type of communication used for web service operations. The client makes a call to a method or procedure that resides on another machine. This concept has been implemented in many ways by many programming languages and operating systems	C502.5	BTL 1
28	Define a Struct? A struct can be thought of as an instance of a class that consists entirely of public instance variables. It is simply a container in which data can be stored in named variables.	C502.5	BTL 1
29	Differentiate a Simple type with a Complex type A simple type is a data type whose values are represented in XML documents by character data, while a complex type is represented using markup.	C502.5	BTL 1
30	Define CDATA? Character data(CDATA) is a text in a document that should not be parsed by the XML parser. Any entities included in the CDATA block will not be replaced by their value andmarkup (such as HTML tags) will not be treated as markup.	C502.5	BTL 1
31	State the advantages of AJAX. [NOV / DEC 2015] Advantages of AJAX. Reduce the traffic travels between the client and the server. Response time is faster so increases performance and speed. You can use JSON (JavaScript Object Notation) which is alternative to XML.	C502.5	BTL 1
32	What is the role of a callback function in performing a partial page update in an AJAX application? [MAY/JUN 2016] Async callback goes by a number of different names in the .NET community such as XMLHttpRequest, AJAX, asynchronous client script callback, to name a few. However the basic building block for callback is theXMLHttpRequest object. It is an API available in JavaScript which is used to send HTTP requests directly from the client to the server and loads the server response back to the browser. The most obvious question which comes to my mind is then what is the difference between callback and postback. Both hit the server and gets data back to the client. Callbacks differ from postback in which the former only sends relevant information back to the server and preserves the Viewstate and the form data. All the ASP.NET server page cycles occur along with client	C502.5	BTL 1

	side events. This helps in loading the page faster because in the rendering phase only the relevant contentis sent to the browser. For example in AJAX, only the contents ofthe UpdatePanel are rendered in the browser.					
	PART B					
1	Explain the Ajax Client Server Architecture in detail? [NOV / DEC 2016] [MAY/JUN 2016] [NOV/DEC 2017] [NOV/DEC 2015]	C502.5	BTL 1			
2	Discuss the XML Http Request Object-Call Back Methods. [NOV / DEC 2016] [NOV/DEC 2017]	C502.5	BTL 1			
3	Explain in detail about Java web services ? [NOV / DEC 2016]	C502.5	BTL 1			
4	Discuss about Database Driven web service.	C502.5	BTL 1			
5	Explain in detail about SOAP? [NOV / DEC 2016] [NOV/DEC 2017]	C502.5	BTL 1			
6	Describe the structure of WSDL document, its elements and their purposes with appropriate examples. [MAY/JUN 2016] [NOV/DEC 2015]	C502.5	BTL 1			