## National University of Computer and Emerging Sciences, Lahore Campus

-	THE PRINCE OF THE PARTY OF THE	Course Name:	Web Programming	Course Code:	CS-406
		Program:	BS(Computer Science)	Semester:	Fall 2016
		Duration:	180 Minutes	Total Marks:	100
		Paper Date:	19-May-17	Weight	40%
		Section:	ALL	Page(s):	2
		Exam Type:	Final		

BAIM3 88	Section:	ALL		Page(s):	2	
	Exam Type:	Final				
Student: Name:_	lent: Name:					
Instruction/Notes:		answer all the questi provided.	ons (including mu	ltiple choice)	on the answ	<del></del> er
1-Which of the fol	lowing compone	ent Manages lifecyc	les?			
a-Web Serv	ver.					
b-Containe	r					
c-Servlet						
						Marks 2
2- Which of the fo	llowing compon	ent has a reference t	to the response obj	ect(select all, w	vhich are corr	ect)?
a-Web Serv	ver.					
b-Containe	r					
c-Servlet						
						Marks 2
3-Given req is a Http	ServletRequest,	which gets a binary inp	out stream:			
a-BinaryInp	utStream s = req.;	getInputStream();				
b- ServletIn	putStream s = rec	g.getInputStream();				
c- BinaryInp	utStream s = req.	getBinaryStream();				
d- ServletIn	putStream s = rec	g.getBinaryStream();				
						Marks 2
4-You can override t	he init() method	in a servlet.				
a- True						
b-False						

Marks 2

b-False
Marks 2
6- You have been given a project to create a Hospital Management System. You need to manage the following in the web application:
<ul> <li>Patient information</li> <li>Doctors information</li> <li>Diagnosis</li> <li>Prescriptions</li> <li>Appointments.</li> </ul> The web application should be able to manage patient information. The doctor should be able to enter diagnosis and prescriptions in the web application.
<ul> <li>Draw a high level architecture diagram of how you would implement such a system.</li> <li>Draw a class diagram of related classes needed for this project.</li> <li>Briefly describe each component of your proposed architecture.</li> <li>Marks 30</li> <li>7- Write a Java Script functions which would validate the following. Write a separate function for each of the</li> </ul>
<ul> <li>id card number [id card should be of the following format: 111111-111111-1]</li> <li>email [email be should be of following format: email@domain.com]</li> <li>Name [Name should alphabets only]</li> </ul>
Marks 20 8- What is Ajax? What are the benefits of Ajax? Describe the states an Ajax object has and what are they used for.
Marks 20
9-What are the different ways to parse XML. Briefly describe how DOM parsing works.

10- Explain in detail the steps of the communication that occurs for Authentication, between a browser and a

Marks 10

Marks 10

5- If an HTML form does not explicitly say "method=POST", the request is still sent as a POST.

container when BASIC security is applied.

a-True