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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **Course:** | **Web Programming** | **Course Code:** | **CS-406** |
| **Program:** | **BS(Computer Science)** | **Semester:** | **Spring 2017** |
| **Duration:** | **60 Minutes** | **Total Marks:** | **40** |
| **Paper Date:** | **20-Feb-17** | **Weight** | **15%** |
| **Section:** | **ALL** | **Page(s):** | **2** |
| **Exam:** | **Mid 1** | **Roll No:** |  |
| **Instruction/Notes:** | **Note: Please use the answer sheet to answer the questions.** | | | |

Question1- What are the three key elements of a HTTP request? (Please give a detailed answer on how request works )

Marks 10

Question 2- What is a container and what features does it provide? (Give details of what a container is and what it does)

Marks 10

Question 3- What is a ServletContext object and what is it used for?

Marks 5

Question 4- How should servlet developers handle the HttpServlet's service() method when extending HttpServlet? (Select the correct option)

A They should override service() method in most cases.

B They should call the service() method from doGet() or doPost()

C They should call the service() method from the init() method

D They should override at least one doXXX() method (such as doPost()).

Marks 2

Question 5- Which types of objects can store attributes? (Select the correct option)

Marks 3

A- ServletConfig

B-ServletResponse

C-RequestDispatcher

D-HttpServletRequest

E-HttpSessionContext

Question 6- Write a JavaScript function which creates an Object 'Person'. This object should have the following properties:

* First Name
* Last Name
* Address
* Phone

Also write an HTML page which will display the data in this person object.

Marks 10