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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 Name:** | **Web Programming** | **Course Code:** | **CS-406** |
| **Program:** | **BS(Computer Science)** | **Semester:** | **Fall 2017** |
| **Duration:** | **180 Minutes** | **Total Marks:** | **100** |
| **Paper Date:** |  | **Weight** | **40%** |
| **Section:** | **ALL** | **Page(s):** | **2** |
| **Exam Type:** | **Final** |  |  |
| **Student : Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Roll No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section:\_\_\_\_\_\_\_** | | | | |
| **Instruction/Notes:** | 1. Please answer all the questions (including multiple choice) on the answer book provided. | | | |

1- Parameters cannot be sent via a GET request?

a-true

b-false

Marks 2

2- Which of the following does the Container do?

a- Calls the service() method.

b- Adds HTML to the response object.

c-Has a reference to the response object.

Marks 2

3-The container calls the following method on the servlet instance after the servlet instance is created but before the servlet can service any client request:

a-doGet()

b- doPost()

c- service()

d-init()

Marks 2

4-*If an HTML form does not explicitly say "method=POST"*

*a- GET*

*b-POST*

*c-TRACE*

Marks 2

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

a-True

b-False

Marks 2

6- You have been given a project to create a Hotel Booking System. You need to manage the following in the web application:

* User\Guest Profile.
* Room Booking functionality.
* Following types of rooms should be available
  + Single
  + Double
  + Queen
* Admin Should be able to set room features and price.
* User should be able to search and book a room.
* User should be able to view the room booking.
* User should be able to update the room booking.

The web application should be able to manage booking and price of the rooms.

* Draw a high level architecture diagram of how you would implement such a system.
* Draw a class diagram of related classes needed for this project.
* Briefly describe each component of your proposed architecture.

Marks 30

7- Write Ajax code to display a video in a webpage to the client. When the client is waiting for the video to load it should show an a message "Please wait while the video loads".

Marks 20

9-What are web services? In a SOAP message packet what are the different parts, explain in detail each part?

Marks 20

10- Explain in detail how you can implement Authentication and Authorization in your web application through declaration?

Marks 20