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**M.Sc DEGREE THIRD SEMESTER EXAMINATION IN COMPUTER SCIENCE  
(SOFT COMPUTING), JANUARY 2021  
19-323-0315 WEB TECHNOLOGY AND INTERNET PROGRAMMING  
(Regular)**

**Time: 3 Hours**

**Maximum Marks: 50**

**(Answer ANY FIVE questions)  
(Each Question carries 10 Marks)**

1. Write a java program to accept input from an user. If the given number is not a prime number then prompt the message "Given number is not a prime number and no factors are available for the number". Otherwise call the thread which generates the factors of the number.
2. Write a javascript code to input the string which has the pattern with the following criteria
  - i)String should start with alphabets (small or capital ) length ranging from 2 to 10.
  - ii)followed by digits of length 3.
  - iii)then the next character should be special characters such as @,!,&,\* and underscore
  - iv)ends with a character 'd'.
3. Develop a Web Application with JDBC connectivity for viewing grocery items in the supermarket.
  - i)Maintain two tables namely Customer and Product. Customer with the attributes as customer\_id, name, password and contact\_no. Product with the attributes as product\_id, name and price.
  - ii)index.html which accepts id and password for sign-in and checks the id and password entry is available in the customer table and then shows the product details from the Product table to the customer.
  - iii)index.html which should redirect to the sign-up page which accepts id, name, password, contact\_no and then stores those details in the Customer table.

**Customer:**

customer_id	Name	Password	Contact_no
101	Steve	1234	9123456789
102	Dave	5666	9345678912
103	Peter	3456	9456789123

**Product:**

product_id	Name	Price
11	Soap_A	40
22	Shampoo_X	89
33	Deo_Y	150

4. Develop a Web Application using JSP for the following
- i) index.html has navigation links for core.jsp, format.jsp and function.jsp
  - ii) core.jsp, format.jsp and function.jsp should convey basic ideas of the respective JSTL tags.
5. a) How to install and configure PHP 5.0 and later versions for mysql connectivity? (6)  
b) What is the role of cookies in Web Application? (4)
6. Create DTD and XSL for the following XML file.
- ```
<breakfast_menu>
<food>
<name>Belgian Waffles</name>
<price>$5.95</price>
<description>Two of our famous Belgian Waffles with plenty of real maple
syrup</description>
<calories>650</calories>
</food>
<food>
<name>Strawberry Belgian Waffles</name>
<price>$7.95</price>
<description>Light Belgian waffles covered with strawberries and whipped
cream</description>
<calories>900</calories>
</food>
</breakfast_menu>
```
7. Write down the steps to create a Web Service for the following
- i) Calculate the percentage of a student using a Glassfish server, generate WSDL, publish the service and consume the web service.
  - ii) Consider a Web Client will send student id, marks of subject1, subject2, subject3 and subject4.
  - iii) Web service return back percentage to the Web Client.

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