IMCA 6th Semester
Examination, 2021
Sub: IT
Paper- 6.1

Time-2hrs

Unit-I   **Total Mark: 70**

1.   What is the use of keyword "this" in java? Write a java [14
     program to create an abstract class **Product** having data
     fields **product_id, name ,price and qty** of the product. The
     class should have an abstact method **int get_gst().** Inherit two
     classes Electronics and Kids from product class having data
     field **type_of_product**. Override the **get_gst()** method in sub
     classes. Finally display total_price of different types of product
     with gst value.

                         OR

     Write down the advantages of ArrayList over Array. Write [14
     down the use of **Iterator** interface with suitable example.
     Write a java program to create class Empoyee having data
     fields emp_code, emp_name, dept, designation. Store
     employee information of 5 employees into an arraylist and
     display their values.

Unit-II

2. a) What is the difference between **rowspan** and **colspan**? Write [10
       an HTML code to draw a table as follows.

Regd No	Name		Percentage
	First	Last	
CS001	Ram	Sharma	85
CS002	Ravi	Sahoo	79

   b)   What is an array in JavaScript? Write down the syntax to   [4]
        create an array.

                         OR

     What is the syntax to write a function in JavaScript? Write an [14]
     html code to create a registration form having information
     user name, password, email-id and mobile no and submit
     button. Write a function to validate the email-id and mobile
     number entered by a user in a form. The telephone number is
     always a number. And e-mail must be in the e-mail format.

Unit-III

3. What is ResultSetMetadata ? Using JDBC , write a java [14
   program to print the marklist of a student from the table named
                                                              as
   Student_mark(Regd_ID,Stu_name,dept,semester,mark_p
   ercentage) .

   OR

   What is JDBC? Explain the terms JDBC driver, Connection, [14
   Statement and ResultSet .

Unit-IV

4. a) JSP is a servlet. Justify through the life cycle of JSP. [7
   b) What is exception in JSP? Write a program in JSP to show [7
      the way errors are handled.

   OR

   What is the difference between include directive tag and [14
   include action tag? Write a client-server program in JSP to
   convert Indian rupees to different currency. The Indian rupees
   must be entered through text field and types of currency must
   be entered through select –option field though an HTML form.

Unit-V

5. What is Java bean? How do you use a Java bean in a JSP 14
   program? Create a java bean to manage book information for
   a library. The book information are book_code, book_name,
   author, publisher, edition. Display all the book information in
   the browser.

   Or

   a) What is a JAR file? Write down the steps to create a JAR file. 7
   b) What is MVC? Explain MVC model through a suitable 7
      diagram.