BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VII ELECTRONIC ELECTRONIC :SUMMER- 2022
SUBJECT : ADVANCED COMPUTER PROGRAMMING

Day : Friday   Time : 02:30 PM-05:30 PM

Date : 3/6/2022   **S-13400-2022**   Max. Marks : 60

N.B.:

    1)   All questions are **COMPULSORY.**

    2)   Figures to the right indicate **FULL** marks.

    3)   Assume suitable data, if necessary.

Q.1	**a)**	What are the applications of object oriented programming?	**(05)**
	b)	Write a difference between object oriented programming and procedure oriented programming.	**(05)**

<div align="center">OR</div>

Q.1		Write a note on: i) Dynamic Binding ii) Message communication	**(10)**

Q.2		What is mean by abstract class? What are the differences between abstract class and interfaces? Describe with the help of examples.	**(10)**

<div align="center">OR</div>

Q.2	**a)**	Describe different data types and declaration of variable in Java.	**(05)**
	b)	Write a program in Java to find average of n numbers.	**(05)**

Q.3	**a)**	Define multithreading. How is a thread different from a process?	**(05)**
	b)	What is the difference between error and exception? What are the different types of exception?	**(05)**

<div align="center">OR</div>

Q.3	**a)**	Which package is required to access I/O in Java? List the I/O files.	**(05)**
	b)	How to use runnable interface and thread class to perform multithreading?	**(05)**

Q.4	**a)**	What is a life cycle of an applet?	**(05)**
	b)	What is <IMG> tag? What are the attributes that can be used with <IMG> tag?	**(05)**

<div align="center">OR</div>

Q.4	**a)**	How to use applets with HTML?	**(05)**
	b)	List out basic HTML tags with syntax.	**(05)**

Q.5	**a)**	Describe use of ORDERBY and WHERE clause with an example.	**(07)**
	b)	What is RDBMS?	**(03)**

<div align="center">OR</div>

Q.5		Discuss the different data models.	**(10)**

Q.6	**a)**	What are the steps involved in establishment of a JDBC connection?	**(04)**
	b)	What is ResultSet, Metadata and Stored Procedure?	**(06)**

<div align="center">OR</div>

Q.6		Describe JDBC architecture in detail.	**(10)**

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