

# UKA TARSADIA UNIVERSITY

Integrated M.Sc. (IT) ( Semester 5 )  
060010503(2016-17)  
Advanced Java

Date :29/05/2017

Time :1:30PM- 4:30PM  
Max. Marks:60

## Instructions :

1. Attempt all questions.
2. Write each section in a separate answer book.
3. Make suitable assumptions wherever necessary.
4. Draw diagrams/figures whenever necessary.
5. Figures to the right indicate full marks allocated to that question.
6. Follow usual meaning of notations/abbreviations.

## SECTION - 1

### Q 1 A) Answer the following.

[4]

- I) Give two important ways for applying concept of multithreading in Java?
- II) List the controls given by AWT.
- III) Which method is used to define priority for thread with its arguments?
- IV) Write syntax to create popup menu for INDIA, CHINA, USA country.

### Q 1 B) Answer the following in brief. (Any 3)

[6]

- I) Which method can change priority of thread? List arguments of required method.
- II) Justify the sentence: "extends Thread" means inheriting all the functions of the Thread class which we may do not need.
- III) What is synchronized keyword in java? How synchronized keyword can be used?
- IV) How panel, frame and canvas are important in AWT?

### Q 2 Answer the following.

[10]

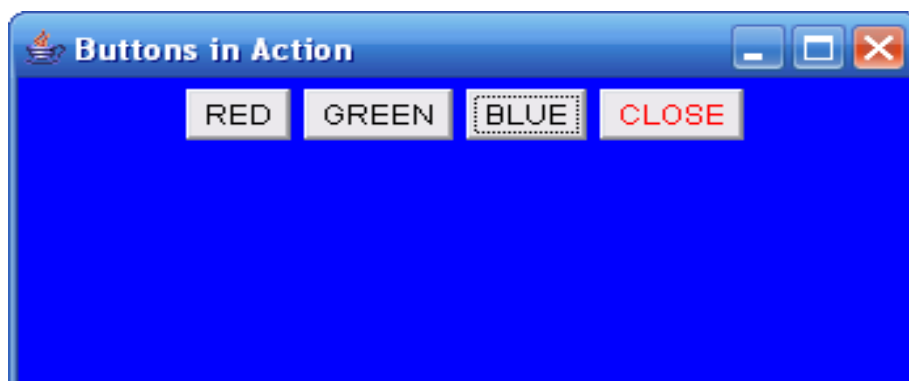
- A) Write a program which will insert new book details in the table called BookMaster using AWT control. Assume that BookMaster table have fields "bookid,bookname,bookauthor,amount".

OR

- A) Develop an application to gather employee information using AWT controls. Whenever new employee join the organization enroll new employee in the system after verifying that employee id is unique. Assume that employee details are stored in the table "EmployeeMaster" which have fields "employeeid,name,salary,joiningdate".
- B) Develop an application to gather employee information using Swing controls. Whenever new employee join the organization enroll new employee in the system after verifying that employee id is unique. Assume that employee details are stored in the table "EmployeeMaster" which have fields "employeeid,name,salary,joiningdate".

OR

- B) Consider the below frame and write a code to change the background color of the window as per the clicking on button also write code for closing the frame.



**Q 3 Answer the following in detail. (Any 2)**

**[10]**

- I) What is event? How to register the listener using adapter class? Explain it with appropriate example.
- II) Explain any five mouse event with appropriate example.
- III) How to draw geographical shapes using AWT controls? Explain any five with appropriate example.

**SECTION - 2**

**Q 4 A) Answer the following.**

**[4]**

- I) Define ServletContext.
- II) What is the use of service()?
- III) Who is responsible to create the object of servlet?
- IV) Write a difference between <choose> and <if> of XML.

**Q 4 B) Answer the following in brief. (Any 3)**

**[6]**

- I) Write two key difference between forward() and sendDirect().
- II) Write down steps to define package in Servlet.
- III) List all containers of Java EE server. Write any one.
- IV) List attribute of <parse> and write one usage of it.

**Q 5 Answer the following.**

**[10]**

- A) Write a code which will remove all the existing cookies.

**OR**

- A) Assume an online shopping portal by which customer can place and cancel the order online. Write a code by which customer information is store whenever they cancel the order except account number.
- B) Write a Servlet which displays the total client's requests count for a particular web page.

**OR**

- B) Write a JSP code which generates random number when user visit the page first time and display the same number in subsequent visit.

**Q 6 Answer the following in detail. (Any 2)**

**[10]**

- I) Explain any two looping tags with appropriate example.
- II) Explain request life cycle of JSP.
- III) List the tags by which JSP can interact with RDBMS. Explain any four with appropriate example.