Reg. No.



VII SEMESTER B.TECH. (COMPUTER SCIENCE AND ENGINEERING) MAKE-UP EXAMINATIONS, DEC 2016-JAN 2017

SUBJECT: DEVELOPING ENTERPRISE APPLICATIONS USING JEE TECHNOLOGIES [CSE 427]

REVISED CREDIT SYSTEM (26/12/2016)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ✤ Answer ANY FIVE FULL questions.
- ✤ Missing data may be suitably assumed.
- 1A. Write down any 8 goals of enterprise applications and discuss each of them.
 4M
- 1B. "In the development of a Java EE application, different people play different roles". Write short notes on 5 such roles.3M
- 1C. Discuss 2-tier, 3-tier enterprise architecture types with the help of neat sketches. State an advantage for each of the types.
 3M
- 2A. List down the various steps involved in using PreparedStatement.Show the process flow for the same with the help of a neat diagram.3M
- 2B. Describe the batch update methods addBatch(), executeBatch(), clearBatch() with the help of an example program. Use PreparedStatement object in the example program.
 3M
- **2C.** Write short notes on:
 - i) ACID properties.
 - ii) Distributed, nested transaction.
 - iii) Setting and rolling back to a savepoint.
 - iv) Setting the auto commit attribute.

4M

3A. Consider the java code snippet:

int i,j=0;	⊳ else
for(i=0;i<2;i++)	{
{ if(i==1)	for(;j<5;j++)
{	{
for(;j<10;j++)	switch(j) {
{	case 0:
switch(j) {	System.out.print(j);
case 5:	break;
System.out.print(j);	case 1:
break;	System.out.print(j);
case 6:	break;
System.out.print(j);	default:
break;	System.out.print(j);
default:	}}}
System.out.print(j);	
}}	

3B. 3C.	For the above java code snippet, write the equivalent JSTL code. Discuss the lifecycle of a JSP page with a neat diagram. Answer the following: i) Describe HTML aware servlets. ii) Describe HTTP specific servlets. iii) Define form data with an example.	3M 3M 4M
4A. 4B. 4C.	Write about any 6 features of EJB 3.0 with an example for each. Write 4 differences between stateless and stateful session beans. Define entity bean. Explain the lifecycle of entity bean with a neat sketch. Write an example program to show the application of entity beans.	3M 2M 5M
5A. 5B. 5C.	 Why internationalization of applications is important? Explain how internalization of a struts 2 application is done. Write short notes on: i) struts.xml with an example. ii) struts.properties. iii) ActionContext class with an example. iv) web.xml in struts with an example. Briefly discuss bundled validators. 	4M 4M 2M
6A. 6B. 6C.	Explain the following spring form tag library with an example for each i) form. ii) radiobutton. iii) password. iv) select and option. Discuss the JSF architecture with the help of a neat diagram. Write down 4 characteristics of message driven beans.	4M 4M 2M