

DEPARTMENT OF INFORMATION TECHNOLOGY
15IT411J- INTEGRATIVE PROGRAMMING AND TECHNOLOGY
CYCLE TEST-1

Date: 6.8.18
Max.Marks: 25
Duration: 50 Min

PART-A ANSWER ANY 3 QUESTIONS (3*4=12)

1. Write down the steps involved in JNI based integrative programming.
2. Mention any 4 JNI primitive data types along with its java equivalent.
3. State any 4 uses of JNIENV pointer.
4. Mention the uses of *Monitors* in JNI programming.

PART-B-ANSWER ANY 1 QUESTION (1*13=13)

5. Write a program using JNI concept
 - 1) Define a **java main class**, with one native method which takes two integers as an arguments” ***Native void add(int n1,int n2);*** (4)
 - 2) Define a **C** code to find the addition of two integers. (4)
 - 3) Explain the steps involved behind executing the above program with a neat sketch. (5)
6. Write a program using JNI concept
 - 1) Define a **java main class**, with one native method which take one string as an argument” ***native String stringcat(String a);*** (4)
 - 2) Define a **C** code to concatenate a C string with the string that is received from java. (4)
 - 3) Explain the steps involved behind executing the above program with a neat sketch. (5)