L. D. COLLEGE OF ENGINEERING

SUBJECT- OBJECT ORIENTED PROGRAMMING USING JAVA

JAVA ASSIGNMENT – 1 (Basic Concepts)

Note- All the questions are mandatory. The programs listed in the assignment must be saved in soft copies and the theoretical questions are supposed to be done in the notebook.

1. Why Boolean in JAVA, does not occupy any memory?
2. Why char takes 2 bytes in JAVA, while in all previous technologies takes 1 byte?
3. What is Unicode System? Write short notes.
4. What is the concept of "Internationalization" in JAVA?
5. Convert the ASCII value of 'A' to Unicode System.
6. What is the concept of "Literals" in JAVA?
7. What is "type casting" in JAVA. Explain with at least five examples.
8. What is the difference between Implicit and explicit typecasting?
9. What is concept of type promotion in JAVA? Explain with at least five examples.
10. What is difference between implicit type casting and type promotion?
11. What are the operators in JAVA?
    (A). Explain their various types in JAVA.
    (B). Explain precedence order of various operators in JAVA.
    (C). Find out the differences in their precedence order in JAVA and C++ if any.

Programs: Assume below all correct java program.

1. Check for the Output of the following lines of code.

```
class abc
{
void show(double d);
void show(float f);
void show(byte b);
void show(short s);
void show(int i);
void show(long l);
}
show(10.5); //check which function will be called as result of this calling with
                reason
show (10); // check which function will be called as result of this calling with
                reason
```

(Hint: Literals Concept)

2. Find the output of below code.

```
byte b= 10;
byte c= 20;
byte d=b*c;
```

(Hint: Type Casting Concept)