Exam Set 13E
AP Computer Science A

Name _____Period_____

1. The ASCIIEncoder class below accepts a String from a user using a Scanner object, then converts the String of characters to its ASCII equivalent. Consider the examples below,

String	**Converted**
Code!	43 6F 64 65 21
@#$% *()&	40 23 24 25 20 2A 28 29 26
Get here Friday!	47 65 74 20 68 65 72 65 20 46 72 69 64 61 79 21

Write the ASCIIEncoder class below

ASCIIEncoder{

}

/6

_____/17

2. What is the output of the following code?

(a)

```
char c;

for( int j = 102; j > 98 ; j--)
{

    c = (char)(j – 32);

    System.out.print(c + “,”);
}
```

(b)

```
String s = “JAVA”;
char ch;

for(int x =0; x < s.length(); x++)
{
    ch = s.charAt(x);

        if( ch = = 74 )
            ch = (char)(ch + 32);

    System.out.print(ch + “,”);
}
```

/2

3. The code is box (a) has errors. Identify the errors by circling them, THEN re-write the corrected code in the box (b).

(a)

```
String message = “Hello JAVA!”;
char c = ‘’;

for( int j = 0; j < message.length(); j++)
{
    c = (int) message.charAt(j+1);

    System.out.print(charValue + “,”);
}
```

(b)

/4

Score _____/17

4. The CountChars class below counts the number of instances a specified char occurs in a word. Consider the following examples and corresponding output,

String	**int locChar**	**Output**
Code is Cool!	67	2
Computer Science is the BEST	102	4
Give here Thanksgiving!	66	0

Write the CountChars class below,

```
public class CountChars{




}
```

/5

Score _____/17

Score _____/17