

(4) State the output of the program. Enter "Index" as input value.

```
public static void main(String str[ ]) { // Input -> Index
    StringBuffer sb = new StringBuffer(str[0]);
    System.out.println("Input-> " + str[0]);
    System.out.println("Length of string -> " + sb.length( ));
    System.out.println(sb.insert(0, "Array"));
    System.out.println(sb.append("OutOfBounds"));
    System.out.println(sb.reverse( ));
    String convertTxt = sb.toString( );
    System.out.println(convertTxt.substring(12, 14));
}
```

(5) State if each statement is true or false.

```
String s = "cool";
String t = "cool";
String u = "Cool";
String x = s;
String p = new String("cool");
String q = new String("cool");
```

- (a) s.equals(t) _____
- (b) s.equals("cool") _____
- (c) s == t _____
- (d) s.equals(u) _____
- (e) s.equalsIgnoreCase(u) _____
- (f) s.equals(x) _____
- (g) s == x _____
- (h) p.equals(q) _____
- (i) p == q _____
- (j) s.equals(p) _____
- (k) s == p _____