3(a)

Black Box testing	White box testing
① Mostly done by Software testers	Mostly done by Software devlopers
② No knowledge of implementation is needed.	knowledge of implem- entation is required
③ It can be refered as outer or external software testing	It is the Inner or ~~under~~ external Software testing
④ It's functional test of the Software	Structural test of the Software
⑤ It is the behaviour testing of the Software	It is the logic testing of Software

Test case generation

- **Boundary value analysis :- (Black Box)**
  It is a type of ~~the~~ Black Box (or) Specification based testing tech- -nique in which tests are perfor- -med using the boundary values.

- White box
  Euclid's GCD algorithm:-
  ```
  int f, (int x, int Y) {
      while (x! = Y) {
          if (x > Y) then
              x = x - Y;
  ```

else $y = y - x$;
}
return x;
}

By ~~chassi~~ choosing the test

$$\{ (x = 3, y = 3), (x = 4, y = 3), (x = 3, y = 4) \}$$

(B) **Boundary Conditions**:

Boundary values :- '\0' , 'c' , 'cc'

if the value is '\0' NULL then Single character not present in string.

'c' ⇒ Yes Single character is present is string.

'cc' ⇒ No single character is not present in the string.