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SEC-X, CSE

ASSIGNMENT-5

12P

Q) 8) Study the program segments given below. Give the output produced, if any.

global var = 10

def test():

local var = 20

print('Inside function test: global var =', global var)

print('Inside function test: local var =', local var)

test()

print('outside

print('outside function test: global var =', global var)

→ Inside function test: global var = 10

Inside function test: local var = 20

outside function test: global var = 10

Error: ('local var is not defined')

ex) global var = 10

def test():

local var = 20

global var = 30

print('Inside function test: global var =', global var)

print('Inside function test: local var =', local var)

test()

print('outside function test: global var =', global var)

→ Inside function test: global var = 30

Inside function test: local var = 20

outside function test: global var = 10

ex) global var = 10

def test():

global global var

local var = 20

global var = 30

```
print('Inside function test: globalvar =', globalvar)
print('Inside function test: localvar =', localvar)
test1()
```

```
print('outside function test: globalvar', globalvar)
```

```
→ Inside function test: globalvar = 30
```

```
Inside function test: localvar = 20
```

```
Outside function test: globalvar = 30
```

```
iv) def test1():
```

```
    test1.a = 10
```

```
    def test2():
```

```
        test1.a = 8
```

```
        print('Inside function test2:', test1.a)
```

```
    test2()
```

```
    print('outside function test2', test1.a)
```

```
test1()
```

```
→ 8
```

```
8
```

```
v) a = 4
```

```
def f():
```

```
    a = 5
```

```
    def g():
```

```
        nonlocal a
```

```
        a = 10
```

```
        print('Inside g:', 'a =', a)
```

```
        def h():
```

```
            nonlocal a
```

```
            a = 20
```

```
            print('Inside function h:', 'a =', a)
```

```
        h()
```

```
    g()
```

```
f()
print('Inside function f:', 'a =', a)
```

→ Inside	function	g, a = 10
Inside	function	f, a = 20
Inside	function	f1, a = 20

```

vii) x = 2
      def test():
          x = x + 1
          print(x)
      print(x)

```

→ 2

```

viii) x = 2
       def test():
           global x
           x = x + 1
           print(x)
       print(x)

```

→ 2