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20T1-exam-multiple-choice ♥

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Release

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M+ README.md	Release
solutions.txt	WIP
state1.png	<u>Release</u>

README.md

Χ

Q1

```
def foo():
    i = 0
    while i <= 9:
        if i % 3 == 0:
            print(i*2)
        else:
            print(i*3)
        i += 1
    print("done")</pre>
```

What's the cyclomatic complexity of the above function?

- A. 10
- B. 3
- C. 4
- D. 11

Q2

. . . .

Q4

Here is some code before a refactor:

```
import jwt
encoded_jwt = jwt.encode({'some': 'payload'}, 'applepineappleorange', algorithm='HS25
print(jwt.decode(encoded_jwt, 'applepineappleorange', algorithms=['HS256']))
```

and here is some code after the refactor:

```
import jwt

algorithm = 'HS256'

encoded_jwt = jwt.encode({'some': 'payload'}, 'applepineappleorange', algorithm=algor

print(jwt.decode(encoded_jwt, 'applepineappleorange', algorithms=[algorithm]))
```

What SE principle has been used to refactor this code?

- A. Don't Repeat Yourself
- B. Keep it Simple Stupid
- C. Top-down design

Q5

Which of the following would **NOT** be used to *authenticate* users:

- A. "Encoding JWT tokens",
- B. "Verifying email addresses",
- C. "Hashing passwords and checking them against stored hashes",
- D. "Checking a user's access privileges",
- E. "Storing cookies on the web browser"

Q6

Which of the following would **NOT** be part of a system of *authorisation*:

- A. Storing user permissions in a database,
- B. Disallowing certain actions based on user access * level, C. Hashing passwords and checking ther
- D. Users with higher access levels promoting those with lower access levels

Q7

Parking meter

What distinguishes continuous delivery from continuous deployment?

- A. Speed of deployment to end-users,
- B. Automatic or manual nature of trigger,
- C. Automatic or manual nature of the deployment actions,
- D. Continuous deployment has more flighting levels than continuous delivery

Q9

Which of the following will the python interpreter accept as the name for the first parameter of instance n

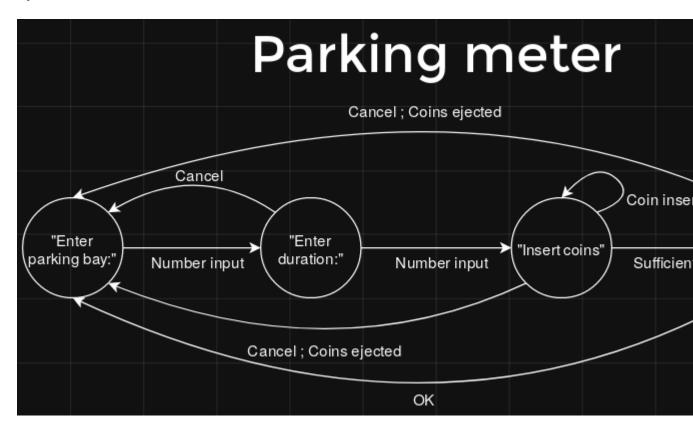
- A. "self",
- B. "this",
- C. "thing"
- D. "all of the above"

Q10

Which of the following is a functional requirement?

- A. The analysis program must run in under a minute.
- B. At peak times, the website has to handle 10,000 * simultaneous users. C. The program needs to fit database.
- D. The university website needs to be available 24 hours a day.

Q11



Here is a state diagram. How many transitions exist in this state diagram?

A. "4",

Q14

Your web application lets users upload images for use as profile pictures. However, after the application honths, a user uploads an image, but there is insufficient disk space to store it. What error code would be

- A. 200
- B. 400
- C. 404
- D. 500

Q15

```
messages = ["Hello", "How are you?"]

def example1():
    print(messages)

def example2():
    messages[0] = "Hi"

def example3():
    messages.append("Nice hat")

def example4():
    messages = ["Goodbye", "See you later"]
```

Which of the above functions should have global messages as their first line?

- A. All of them
- B. example2, example3 and example4
- C. example4
- D. example3