

Student Result

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Exam: Python , Django , Angular Programming

Score: 39.0/45.0

Percentage: 86.67%

Question-wise Summary

Sr.no	Question	Selected Answer	Correct Answer
1	Which type of Programming does Python support?	all of the mentioned	all of the mentioned
2	What does the @staticmethod decorator do in a Python class?	Defines a method that doesn't receive an implicit first argument	Defines a method that doesn't receive an implicit first argument
3	In Django, which method is used to create database tables based on your models?	manage.py makemigrations and manage.py migrate	manage.py makemigrations and manage.py migrate

4	<p>What will be the output of the following Python code?</p> <pre>def create_multipliers(): return [lambda x: i * x for i in range(4)] functions = create_multipliers() results = [f(2) for f in functions] print(results)</pre>	<p>[6, 6, 6, 6]</p>	<p>[6, 6, 6, 6]</p>
5	<p>What will be the output of the following Python code?</p> <pre>def create_funcs(): funcs = [] for i in range(3): def f(x, i=i): return x + i funcs.append(f) return funcs funcs = create_funcs() print([f(10) for f in funcs])</pre>	<p>[10, 11, 12]</p>	<p>[10, 11, 12]</p>

6

What will be the output of the following Python code?

```
def logger(func):  
    def wrapper(*args, **kwargs):  
        print(f"Calling {func.__name__}")  
        return func(*args, **kwargs)  
    return wrapper  
    @logger  
def add(x, y):  
    return x + y  
result = add(add(1, 2), add(3, 4))  
print(result)
```

Calling add (3 times), then 10

Calling add (3 times), then 10

7

What will
be the
Output of
the
Following
Code?

```
class  
Weird:  
def  
    __init__(self,  
    x): self.x  
    = x def  
    __eq__(self,  
    other):  
    return  
    self.x ==  
    other.x a  
    =  
    Weird(10)  
    b =  
    Weird(10)  
    d = {a:  
        "Hello",  
        b:  
        "World"}  
    print(len(d),  
    d[a])
```

1 World

2 Hello

8

What will
be the
Output of
the
Following
Code?

```
def  
tricky(n,  
cache={}):  
if n in  
cache:  
return  
cache[n]  
if n <= 1:  
return 1  
cache[n]  
=  
tricky(n-1)  
+  
tricky(n-2)  
return  
cache[n]  
print(tricky(4))  
print(tricky(3))  
print(tricky(2))
```

5, 3, 2**5, 3, 2**

9

What will
be the
Output
Of the
Following
Code?
def
subgen():
yield 1
yield 2
return 3
def
main():
result =
yield
from
subgen()
print("Returned:",
result) g
= main()
for val in
g:
print(val)

1, 2,
Returned:
3

1, 2,
Returned:
3

10

What will
be the
Output of
the
Following
Code?
class
Key: def
 __init__(self,
 val):
 self.val =
 val def
 __eq__(self,
 other):
 return
 self.val
 ==
 other.val
 k1 =
 Key(1)
 k2 =
 Key(1) d
 = {k1: 'a',
 k2: 'b'}
 print(len(d))

1

2

11

What will
be the
Output of
the
Following
Code?

```
def
dec1(func):
def
wrapper(*args):
print("dec1")
return
func(*args)
return
wrapper
def
dec2(func):
def
wrapper(*args):
print("dec2")
return
func(*args)
return
wrapper
@dec1
@dec2
def
hello():
print("Hello")
hello()
```

dec2,
dec1,
Hello

dec1,
dec2,
Hello

12	<p>What will be the Output of the Following Code?</p> <pre>def sub(): yield 1 yield 2 return "Done" def main(): x = yield from sub() print("Subgen returned:", x) g = main() for i in g: print(i)</pre>	<p>1 2 Subgen returned: Done</p>	<p>1 2 Subgen returned: Done</p>
13	<p>What will be the Output of the Following Code?</p> <pre>ef func(a, L=[]): L.append(a) return L print(func(1)) print(func(2)) print(func(3))</pre>	<p>[1], [1, 2], [1, 2, 3]</p>	<p>[1], [1, 2], [1, 2, 3]</p>

14	<p>Which of the following operations will NOT trigger <code>model.save()</code> or signals (<code>pre_save/post_save</code>)?</p>	<p><code>MyModel.objects.bulk_create()</code></p>	
15	<p>What will be printed?</p> <pre>Component: @Component({ selector: 'app-test', template: `{{ value }}` }) class TestComponent implements OnInit { value = 'initial'; ngOnInit() { setTimeout(() => this.value = 'changed', 0); } }</pre>	<p>Initial</p>	<p>Initial</p>
16	<p>What does providing a service in the component (instead of module) do?</p>	<p>Creates a new service instance per component</p>	<p>Creates a new service instance per component</p>

17	<p>n a</p> <p>Django +</p> <p>Angular</p> <p>app</p> <p>using</p> <p>REST</p> <p>API,</p> <p>what is a</p> <p>good</p> <p>reason to</p> <p>disable</p> <p>CSRF</p> <p>middleware?</p>	<p>Angular</p> <p>uses</p> <p>JWT</p> <p>Auth</p> <p>and</p> <p>doesn't</p> <p>send</p> <p>CSRF</p> <p>tokens</p>	<p>Angular</p> <p>uses</p> <p>JWT</p> <p>Auth</p> <p>and</p> <p>doesn't</p> <p>send</p> <p>CSRF</p> <p>tokens</p>
18	<p>If an</p> <p>Angular</p> <p>frontend</p> <p>calls a</p> <p>Django</p> <p>API and</p> <p>receives</p> <p>a CORS</p> <p>error,</p> <p>what</p> <p>should</p> <p>be done?</p>	<p>Configure</p> <p>CORS_ORIGIN_ALLOW_ALL</p> <p>in</p> <p>Django</p>	<p>Configure</p> <p>CORS_ORIGIN_ALLOW_ALL</p> <p>in</p> <p>Django</p>
19	<p>What will</p> <p>be the</p> <p>Output of</p> <p>the</p> <p>Following</p> <p>Code?</p> <pre>stack = [] for i in range(3): stack.append(i) for i in range(2): stack.pop() print(stack)</pre>	<p>[1]</p>	<p>[0]</p>

20	<p>What will be the Output of the Following Code? s</p> <pre>s = "((())" stack = [] for ch in s: if ch == '(': stack.append(ch) else: if stack: stack.pop() print(len(stack))</pre>	<p>Zero always</p>	<p>Extra '(' remaining</p>
21	<p>During project setup, if ng serve fails with the error "Local workspace file ('angular.json') could not be found", what is the likely issue?</p>	<p>The angular.json file is missing or misplaced</p>	<p>Problems with node_modules</p>
22	<p>In Angular, which file is used to define the set of modules, components, and services?</p>	<p>app.module.ts</p>	<p>app.module.ts</p>

23	<p>What will be the Output of the Following Code?</p> <pre>def f(x, l=[]): for i in range(x): l.append(i*i) return l print(f(3)) print(f(2))</pre>	<p>[0, 1, 4, 0, 1]</p>	<p>[0, 1, 4, 0, 1]</p>
24	<p>In Angular ($\geq 2+$), what is the difference between <code>NgModule.imports</code> and <code>NgModule.exports</code>?</p>	<p>imports declares dependencies the module needs, exports makes parts available to other modules</p>	<p>imports declares dependencies the module needs, exports makes parts available to other modules</p>
25	<p>Which of these is a valid way to lazily load a module in Angular's router (from Angular 8+)?</p>	<pre>{ path: 'admin', loadChildren: () => import('./admin/admin.module').then(m => m.AdminModule) }</pre>	<pre>{ path: 'admin', loadChildren: () => import('./admin/admin.module').then(m => m.AdminModule) }</pre>

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Given
the
following
models:
class
Author(models.Model):
name =
models.CharField(max_length=100)
class
Book(models.Model):
title =
models.CharField(max_length=100)
author =
models.ForeignKey(Author,
on_delete=models.CASCADE,
related_name='books')
Which of
these
queries
returns
all Author
instances
that have
no
books?

Author.objects.filter(books__author=None).filter(books__title=None)

27	<p>What happens when you call <code>save()</code> on a Django model instance without specifying <code>force_insert</code> or <code>force_update</code>, and the instance has a primary key that already exists in the database?</p>	<p>It will do an UPDATE</p>	<p>It will do an UPDATE</p>
28	<p>In Django REST Framework (DRF), what is the main function of <code>SerializerMethodField</code>?</p>	<p>It enables custom read-only fields whose value is computed by a method</p>	<p>It enables custom read-only fields whose value is computed by a method</p>

29	<p>Which of the following is the most efficient way to handle a large number of background tasks in Django?</p>	<p>Integrating with a task queue like Celery.</p>	<p>Integrating with a task queue like Celery.</p>
30	<p>How would you implement real-time communication (e.g., chat) in a Django application?</p>	<p>Using Django Channels for WebSockets.</p>	<p>Using Django Channels for WebSockets.</p>
31	<p>What is the primary purpose of ChangeDetectionStrategy.OnPush in Angular?</p>	<p>To improve performance by only checking changes when input properties change or an event is explicitly triggered.</p>	<p>To improve performance by only checking for changes when input properties change or an event is explicitly triggered.</p>

32	<p>How can you ensure proper communication between two unrelated Angular components without a direct parent-child relationship?</p>	<p>Utilizing a shared service with a Subject or BehaviorSubject.</p>	<p>Utilizing a shared service with a Subject or BehaviorSubject.</p>
33	<p>When integrating Django as a backend and Angular as a frontend, what is the recommended approach for handling user authentication and authorization?</p>	<p>Implementing token-based authentication (e.g., JWT) where Django issues tokens and Angular stores and sends them.</p>	<p>Implementing token-based authentication (e.g., JWT) where Django issues tokens and Angular stores and sends them.</p>

34	<p>What will be the Output of the Following Code?</p> <pre>Python x = 10 def outer_func(): x = 5 def inner_func(): print(x) inner_func() outer_func()</pre>	5	5
35	<p>What is the best data structure to implement a cache with FIFO eviction policy?</p>	Queue + HashMap	Queue + HashMap
36	<p>What is the purpose of csrf_token in a Django form?</p>	<p>To prevent Cross-Site Request Forgery (CSRF) attacks by ensuring the request comes from your own site</p>	<p>To prevent Cross-Site Request Forgery (CSRF) attacks by ensuring the request comes from your own site</p>

37	<p>What is the main advantage of lazy loading feature modules in Angular?</p>	<p>It allows for loading modules on demand, which reduces the initial application load time.</p>	<p>It allows for loading modules on demand, which reduces the initial application load time.</p>
38	<p>What is the main purpose of the RouterModule.forRoot() method in Angular?</p>	<p>To register the routing service and provide the router configuration for the root application module.</p>	<p>To register the routing service and provide the router configuration for the root application module.</p>

39	<p>What is the difference between constructor and ngOnInit in an Angular component?</p>	<p>constructor is for dependency injection and simple initializations, while ngOnInit is for more complex logic that should run after the component's inputs are available.</p>	<p>constructor is for dependency injection and simple initializations, while ngOnInit is for more complex logic that should run after the component's inputs are available.</p>
40	<p>What does the queryset attribute in a Django generic ListView define?</p>	<p>The list of objects that the view will display</p>	<p>The list of objects that the view will display</p>
41	<p>In the context of exception handling, what is the purpose of the finally block?</p>	<p>It is always executed, regardless of whether an exception occurred or not.</p>	<p>It is always executed, regardless of whether an exception occurred or not.</p>

42	What does the pass statement do in Python?	It acts as a placeholder where code is syntactically required but no action is needed.	It acts as a placeholder where code is syntactically required but no action is needed.
43	How do you pass data from a child component back up to a parent component	B) Using <code>@Output()</code> and an <code>EventEmitter</code> .	B) Using <code>@Output()</code> and an <code>EventEmitter</code> .
44	In the Django MVT (Model-View-Template) architecture, what is the "T"?	Template	Template
45	How do you pass data from a parent component to a child component?	Using the <code>@Input()</code> decorator.	Using the <code>@Input()</code> decorator.