

## Student Result

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**Exam:** Python , Django , Angular Programming

**Score:** 10.0/45.0

**Percentage:** 22.22%

### Question-wise Summary

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

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><b>[6, 6, 6, 6]</b></p>	<p><b>[6, 6, 6, 6]</b></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><b>[10, 11, 12]</b></p>	<p><b>[10, 11, 12]</b></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])
```

**Error**

**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))

**Error**

**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()
```

**dec1,  
dec2,  
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><b>1 2</b> <b>Subgen</b> <b>returned:</b> <b>Done</b></p>	<p><b>1 2</b> <b>Subgen</b> <b>returned:</b> <b>Done</b></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><i>Not Answered</i></p>	<p><b>[1], [1, 2], [1, 2, 3]</b></p>

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

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

20	<p>What will be the Output of the Following Code? s = "((())" stack = [] for ch in s: if ch == '(': stack.append(ch) else: if stack: stack.pop() print(len(stack))</p>	<p><i>Not Answered</i></p>	<p><b>Extra '(' remaining</b></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><i>Not Answered</i></p>	<p><b>Problems with node_modules</b></p>
22	<p>In Angular, which file is used to define the set of modules, components, and services?</p>	<p><i>Not Answered</i></p>	<p><b>app.module.ts</b></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>	<i>Not Answered</i>	<b>[0, 1, 4, 0, 1]</b>
24	<p>In Angular (<math>\geq 2+</math>), what is the difference between <code>NgModule.imports</code> and <code>NgModule.exports</code>?</p>	<i>Not Answered</i>	<b>imports declares dependencies the module needs, exports makes parts available to other modules</b>
25	<p>Which of these is a valid way to lazily load a module in Angular's router (from Angular 8+)?</p>	<i>Not Answered</i>	<pre>{ path: 'admin',   loadChildren: () =&gt;     import('./admin/admin.module')     =&gt;     m.AdminModule) }</pre>

26	<p>Given the following models:</p> <pre>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')</pre> <p>Which of these queries returns all Author instances that have no books?</p>	<p><i>Not Answered</i></p>	<p><b>Author.objects.filter(bo</b></p>
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27	What happens when you call save() on a Django model instance without specifying force_insert or force_update, and the instance has a primary key that already exists in the database?	<i>Not Answered</i>	<b>It will do an UPDATE</b>
28	In Django REST Framework (DRF), what is the main function of SerializerMethodField?	<i>Not Answered</i>	<b>It enables custom read-only fields whose value is computed by a method</b>

29	Which of the following is the most efficient way to handle a large number of background tasks in Django?	<i>Not Answered</i>	<b>Integrating with a task queue like Celery.</b>
30	How would you implement real-time communication (e.g., chat) in a Django application?	<i>Not Answered</i>	<b>Using Django Channels for WebSockets.</b>
31	What is the primary purpose of ChangeDetectionStrategy.OnPush in Angular?	<i>Not Answered</i>	<b>To improve performance by only checking for changes when input properties change or an event is explicitly triggered.</b>



32	How can you ensure proper communication between two unrelated Angular components without a direct parent-child relationship?	<i>Not Answered</i>	<b>Utilizing a shared service with a Subject or BehaviorSubject.</b>
33	When integrating Django as a backend and Angular as a frontend, what is the recommended approach for handling user authentication and authorization?	<i>Not Answered</i>	<b>Implementing token-based authentication (e.g., JWT) where Django issues tokens and Angular stores and sends them.</b>

34	What will be the Output of the Following Code? Python x = 10 def outer_func(): x = 5 def inner_func(): print(x) inner_func() outer_func()	<i>Not Answered</i>	<b>5</b>
35	What is the best data structure to implement a cache with FIFO eviction policy?	<i>Not Answered</i>	<b>Queue + HashMap</b>
36	What is the purpose of csrf_token in a Django form?	<i>Not Answered</i>	<b>To prevent Cross-Site Request Forgery (CSRF) attacks by ensuring the request comes from your own site</b>

37	What is the main advantage of lazy loading feature modules in Angular?	<i>Not Answered</i>	<b>It allows for loading modules on demand, which reduces the initial application load time.</b>
38	What is the main purpose of the RouterModule.forRoot() method in Angular?	<i>Not Answered</i>	<b>To register the routing service and provide the router configuration for the root application module.</b>

39	What is the difference between constructor and ngOnInit in an Angular component?	<i>Not Answered</i>	<b>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.</b>
40	What does the queryset attribute in a Django generic ListView define?	<i>Not Answered</i>	<b>The list of objects that the view will display</b>
41	In the context of exception handling, what is the purpose of the finally block?	<i>Not Answered</i>	<b>It is always executed, regardless of whether an exception occurred or not.</b>

42	What does the pass statement do in Python?	<i>Not Answered</i>	<b>It acts as a placeholder where code is syntactically required but no action is needed.</b>
43	How do you pass data from a child component back up to a parent component	<i>Not Answered</i>	<b>B) Using @Output() and an EventEmitter.</b>
44	In the Django MVT (Model-View-Template) architecture, what is the "T"?	<i>Not Answered</i>	<b>Template</b>
45	How do you pass data from a parent component to a child component?	<i>Not Answered</i>	<b>Using the @Input() decorator.</b>