

## Student Result

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

**Score:** 0.0/0.0

**Percentage:** 0.00%

### Question-wise Summary

Sr.no	Question	Selected Answer	Correct Answer
1	Which type of Programming does Python support?	<i>Not Answered</i>	<b>all of the mentioned</b>
2	What does the @staticmethod decorator do in a Python class?	<i>Not Answered</i>	<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?	<i>Not Answered</i>	<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><i>Not Answered</i></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><i>Not Answered</i></p>	<p><b>[10, 11, 12]</b></p>

6	<p>What will be the output of the following Python code?</p> <pre>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)</pre>	<p>Not Answered</p>	<p>Calling add (3 times), then 10</p>
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7	<p>What will be the Output of the Following Code?</p> <pre>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])</pre>	<p>Not Answered</p>	<p>2 Hello</p>
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8	<p>What will be the Output of the Following Code?</p> <pre>def tricky(n, cache={}): if n in cache: return cache[n] if n &lt;= 1: return 1 cache[n] = tricky(n-1) + tricky(n-2) return cache[n] print(tricky(4)) print(tricky(3)) print(tricky(2))</pre>	<p>Not Answered</p>	5, 3, 2
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9	<p>What will be the Output Of the Following Code?</p> <pre>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)</pre>	<p><i>Not Answered</i></p>	<p><b>1, 2, Returned: 3</b></p>
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10	<p>What will be the Output of the Following Code?</p> <pre>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))</pre>	<p>Not Answered</p>	2
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11	<p>What will be the Output of the Following Code?</p> <pre>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()</pre>	<p><i>Not Answered</i></p>	<p><b>dec1, dec2, Hello</b></p>
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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>Not Answered</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>Not Answered</p>	<p>[1], [1, 2], [1, 2, 3]</p>

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

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

20	<p>What will be the Output of the Following Code? s = "((())"</p> <pre>stack = [] for ch in s:     if ch == '(':         stack.append(ch)     else:         if stack:             stack.pop() print(len(stack))</pre>	Not Answered	Extra '(' remaining
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>	Not Answered	Problems with node_modules
22	<p>In Angular, which file is used to define the set of modules, components, and services?</p>	Not Answered	app.module.ts

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>	Not Answered	[0, 1, 4, 0, 1]
24	<p>In Angular (<math>\geq 2+</math>), what is the difference between NgModule.imports and NgModule.exports?</p>	Not Answered	<p><b>imports declares dependencies the module needs, exports makes parts available to other modules</b></p>
25	<p>Which of these is a valid way to lazily load a module in Angular's router (from Angular 8+)?</p>	Not Answered	<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>Not Answered</p>	<p>Author.objects.filter(bo</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	<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>	<i>Not Answered</i>	<b>5</b>
35	<p>What is the best data structure to implement a cache with FIFO eviction policy?</p>	<i>Not Answered</i>	<b>Queue + HashMap</b>
36	<p>What is the purpose of csrf_token in a Django form?</p>	<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>