

WRITTEN TEST - INSTRUCTION		
Candidate Name:		
Assessor Name:		
Qualification:	National Skill Certificate in Web Application Development with Python, Level-4	
Units of Competency	GU-11-L4-V1 Lead Small Team SU-ICT-03-L3-V1 Comply to Ethical Standards in the ICT Workplace OU-ICT-WADP-01-L4-V1 Enable Django Framework Environment OU-ICT-WADP-02-L4-V1 Develop dynamic web pages OU-ICT-WADP-03-L4-V1 Use Django model OU-ICT-WADP-04-L4-V1 Process Forms OU- ICT-WADP-05-L4-V1 Customize UI OU-ICT-WADP-06-L4-V1 Apply User Management OU-ICT-WADP-07-L4-V1 Create API using Django REST Framework OU-ICT-WADP-08-L4-V1 Create Final project	
Assessment Centre:		
Date of Assessment:		
Time Of Assessment:		
Instruction's:		
Read and understand the direct Wins carefully: <ul style="list-style-type: none"> this written examination is based on the performance criteria from all the units of competency in Web Application Development with Python, Level-4 this assessment activity will be used to measure your underpinning knowledge write your answers on the paper provided answer all the questions as best as possible you have 1 hour to complete this test 		
Candidate's Signature		Date:
Assessor Signature		Date:

Multiple Choice Question

1. What does the ForeignKey field represent in Django?	<ul style="list-style-type: none"> A. A many-to-many relationship B. A one-to-one relationship C. A many-to-one relationship D. A self-referential relationship
2. Which commands use to create a project in Django?	<ul style="list-style-type: none"> A. \$ django-admin createprojectproject_name B. \$ django-admin startprojectproject_name C. \$ djangostartprojectproject_name D. \$ djangocreateprojectproject_name
3. How do you query all objects from a model?	<ul style="list-style-type: none"> A. Model.fetch_all() B. Model.objects.all() C. Model.objects.retrieve() D. Model.all()
4. How do you include another template inside a Django template?	<ul style="list-style-type: none"> A. {% import 'template_name.html' %} B. {% use 'template_name.html' %} C. {% include 'template_name.html' %} D. {% render 'template_name.html' %}
5. What is the purpose of the {% csrf_token %} tag?	<ul style="list-style-type: none"> A. Adds a security token to forms B. Renders a CSRF error message C. Verifies user authentication D. Encrypts the form data
6. How do you log out a user in Django?	<ul style="list-style-type: none"> A. request.logout() B. logout_user() C. logout(request) D. deactivate_user()
7. What is the purpose of the pip freeze command in Python?	<ul style="list-style-type: none"> A. It installs Python packages. B. It lists all installed packages and their versions. C. It upgrades the Python interpreter. D. It uninstalls Python packages.
8. What is a Django model in the context of web development?	<ul style="list-style-type: none"> A. A template engine B. A database table representation C. A CSS framework D. A JavaScript library
9. What is the default port for the Django development server?	<ul style="list-style-type: none"> A. 8000 B. 8080 C. 3000 D. 5000
10. Which option is used to make a field optional in a Django model?	<ul style="list-style-type: none"> A. optional=True B. null=True, blank=True C. required=False D. nullable=True
11. Which command creates a new migration file?	<ul style="list-style-type: none"> A. python manage.py migrate B. python manage.py makemigrations C. python manage.py create_migration D. python manage.py generate_migration
12. What does @login_required in Django do?	<ul style="list-style-type: none"> A. Blocks non-authenticated users from accessing a view B. Logs in a user C. Redirects unauthenticated users to the home page D. Enables session management
13. How do you register a model in the Django admin?	<ul style="list-style-type: none"> A. admin.register(model_name) B. admin.site.add_model(model_name) C. admin.site.register(model_name) D. admin.model_register(model_name)
14. What is the purpose of serializers in DRF?	<ul style="list-style-type: none"> A. Validate database models B. Convert complex data to JSON and vice versa

	C. Manage migrations D. Handle URL routing
15. Which database is the default for Django projects?	A. PostgreSQL B. MySQL C. SQLite D. MongoDB

16. What is the difference between `get()` and `filter()` in Django QuerySet?

17. What are `makemigrations` and `migrate` commands in Django?

18. How do you set up a database connection in Django?

19. What are the main features of Django?

20. What is the role of settings.py in a Django project?

21. What is Django ORM? What database operations can be performed using Django's ORM, give example?

22. What is the role of the 'is_authenticated' attribute in Django user authentication?

23. What is a Django model in the context of web development? What is the purpose of the `auto_now_add` option in a Django `DateTimeField`?

24. What is the purpose and use of the `save()` function in Django?

25. What is the purpose of the `models.py` file in a Django app? How do you define a model in Django?

26. What is a view in Django?

27. How can you delete multiple records in Django ORM? Explain the use of the `delete()` method with an example.

28. What is the purpose of serializers in DRF?

29. What method is used to handle submitted data by form in a Django view? How do you define a form class in django?

30. What is the purpose of the `'reverse()'` function in Django with respect to URLs?