



**SILVER OAK
UNIVERSITY**
EDUCATION TO INNOVATION

School of Technology, Design and Computer Application
Silver Oak College of Computer Application
Department of Computer Science
Bachelor of Science Computer Science & Information Technology

Semester:	4	Academic Year:	2024-2025
Course Name:	Integrated Web Solutions - I	Course Code:	3040243207

Question bank

MCQ / One-Liner Questions
Unit No 1 : Django Overview
<ol style="list-style-type: none">1. What is Django?<ul style="list-style-type: none">○ A) A front-end framework○ B) A back-end server-side web framework○ C) A database management system○ D) A programming language○ Answer: B) A back-end server-side web framework2. What language is Django written in?<ul style="list-style-type: none">○ A) Java○ B) PHP○ C) Python○ D) JavaScript○ Answer: C) Python3. Which principle does Django emphasize to promote reusability?<ul style="list-style-type: none">○ A) WYSIWYG○ B) DRY (Don't Repeat Yourself)○ C) MVC○ D) OOP○ Answer: B) DRY (Don't Repeat Yourself)4. Which package manager is used to install Django?<ul style="list-style-type: none">○ A) npm○ B) pip○ C) yarn○ D) composer



- **Answer:** B) pip
- 5. How can you check if Python is installed on your system?
 - A) python --check
 - B) python --install
 - C) python --version
 - D) python --status
 - **Answer:** C) python --version
- 6. What is the command to create a new Django project?
 - A) django-admin startapp <project_name>
 - B) django startproject <project_name>
 - C) django-admin startproject <project_name>
 - D) django createproject <project_name>
 - **Answer:** C) django-admin startproject <project_name>
- 7. Which architecture does Django follow?
 - A) MVC (Model View Controller)
 - B) MVT (Model View Template)
 - C) MVVM (Model View ViewModel)
 - D) MVP (Model View Presenter)
 - **Answer:** B) MVT (Model View Template)
- 8. In Django, what is a "Model" responsible for?
 - A) Handling database operations
 - B) Managing user authentication
 - C) Defining the UI layout
 - D) Handling HTTP requests
 - **Answer:** A) Handling database operations
- 9. Where are Django templates typically stored?
 - A) In the models.py file
 - B) In the views.py file
 - C) In a folder named "templates"
 - D) In a database table
 - **Answer:** C) In a folder named "templates"
- 10. Which command is used to start the Django development server?
 - A) django runserver
 - B) python runserver
 - C) python manage.py runserver



- D) django-admin runserver
 - **Answer:** C) python manage.py runserver
11. What does the command `pip freeze` do?
- A) Installs Django
 - B) Lists installed packages
 - C) Freezes Python version
 - D) Uninstalls all packages
 - **Answer:** B) Lists installed packages
12. How can you create a new Django app?
- A) django-admin startapp <app_name>
 - B) python manage.py startapp <app_name>
 - C) django createapp <app_name>
 - D) python startapp <app_name>
 - **Answer:** B) python manage.py startapp <app_name>
13. What does API stand for?
- A) Advanced Programming Interface
 - B) Application Programming Interface
 - C) Automated Process Integration
 - D) Application Process Interaction
 - **Answer:** B) Application Programming Interface
14. Why do we need an API?
- A) To store user passwords securely
 - B) To allow communication between applications
 - C) To create static web pages
 - D) To design database structures
 - **Answer:** B) To allow communication between applications
15. What does REST stand for in REST API?
- A) Real-time Event Streaming Technology
 - B) Representational State Transfer
 - C) Remote Execution of Software Transactions
 - D) Rapid Encapsulation of System Tokens
 - **Answer:** B) Representational State Transfer
16. What file typically contains the URL configuration for a Django project?
- A) settings.py
 - B) views.py
 - C) urls.py



- D) models.py
 - **Answer: C) urls.py**
17. What command is used to apply migrations in Django?
- A) python manage.py applymigrations
 - B) python manage.py makemigrations
 - C) python manage.py runmigrations
 - D) python manage.py migrate
 - **Answer: D) python manage.py migrate**
18. What does the Django ORM stand for?
- A) Object Relational Mapping
 - B) Object Relationship Model
 - C) Operational Resource Management
 - D) Organizational Role Mapping
 - **Answer: A) Object Relational Mapping**
19. In Django, where are models usually defined?
- A) In the views.py file
 - B) In the models.py file
 - C) In the urls.py file
 - D) In the settings.py file
 - **Answer: B) In the models.py file**
20. Which of the following is NOT a field type in Django models?
- A) CharField
 - B) TextField
 - C) ImageField
 - D) ColorField
 - **Answer: D) ColorField**
21. What method in Django models is typically used to define the string representation of an object?
- A) **init**
 - B) **str**
 - C) **repr**
 - D) **display**
 - **Answer: B) str**
22. What kind of function does a Django view represent?



- ☐ A) A middleware function
 - ☐ B) A database handler
 - ☐ C) A request handler
 - ☐ D) A template renderer
 - ☐ **Answer: C) A request handler**
23. Which HTTP method is typically used to update data in Django views?
- ☐ A) GET
 - ☐ B) POST
 - ☐ C) PUT
 - ☐ D) DELETE
 - ☐ **Answer: C) PUT**
24. Which decorator is commonly used to restrict access to a Django view to authenticated users?
- ☐ A) @admin_only
 - ☐ B) @login_required
 - ☐ C) @authenticated
 - ☐ D) @restrict_user
 - ☐ **Answer: B) @login_required**
25. In Django templates, what symbol is used for template tags?
- ☐ A) [[]]
 - ☐ B) {{ }}
 - ☐ C) << >>
 - ☐ D) (())
 - ☐ **Answer: B) {{ }}**
26. How do you comment out a line in a Django template?
- ☐ A) <!-- comment -->
 - ☐ B) {{# comment #}}
 - ☐ C) {% comment %} comment {% endcomment %}
 - ☐ D) // comment
 - ☐ **Answer: C) {% comment %} comment {% endcomment %}**
27. Which Django template tag is used for looping through a list?
- ☐ A) {% loop %}
 - ☐ B) {% for %}
 - ☐ C) {% while %}
 - ☐ D) {% iterate %}



- **Answer:** B) {% for %}

28. What command creates a superuser for the Django admin panel?

- A) python manage.py createsuperuser
- B) python manage.py createadmin
- C) python manage.py superuser
- D) python manage.py makemigrations
- **Answer:** A) python manage.py createsuperuser

29. Where do you register a model to make it visible in the Django admin interface?

- A) In the views.py file
- B) In the models.py file
- C) In the admin.py file
- D) In the settings.py file
- **Answer:** C) In the admin.py file

30. What is the default port for running a Django development server?

- A) 80
- B) 443
- C) 8000
- D) 8080
- **Answer:** C) 8000

Sr. No.	Long Questions
Unit No 1 : Django Overview	
1	Explain the Django MVT (Model-View-Template) architecture with an example.
2	What is a virtual environment (virtualenv), and why is it used in Python projects?
3	Explain how CRUD operations are implemented in Django with an example.
4	Explain API and RESTFUL API in brief.
5	Explain the working of Django Middleware and its role in request-response processing.



6	What is the significance of SQL in Django applications, and how does Django interact with databases?
7	Describe the key components of Django's ORM (Object-Relational Mapping).

Sr. No.	Short Questions
Unit No 1 : Django Overview	
1	What is Django?
2	What is the role of the <code>requests</code> library in Python?
4	What is Virtualenv, and why is it used in Django?
5	Explain the key components of Django architecture.
6	How do you create a new Django project?
7	What command is used to create a Django app?
8	How do you create a superuser in Django?
9	What is the purpose of the Django <code>manage.py</code> file?
10	Define RESTful architecture in web development.
11	What is SQL, and why is it important in web applications?
12	What are the basic CRUD operations in SQL?

Course Coordinator

Head of Department