

Q.No	Part A (2x10=20 marks) (Answer all the questions)	
1	Name two advantages of server-side programming.	
2	How do you install a package using npm?	
3	What are the different types of HTTP requests?	
4	How is middleware added to an Express.js application?	
5	Explain the role of frameworks in simplifying web application development.	
6	What is SQL Alchemy?	
7	List some Mongo DB services.	
8	What is an index in MongoDB, and why is it used?	
9	What is Hibernate Inheritance Mapping? Give example.	
10	What is Spring Boot? State its applications.	

Q.No	Part B - (5 x 16 = 80 marks) (Answer all the questions)	
11 A	Describe npm and explain its key functions and features in Node.js development.	
OR		
11 B	Explain the request-response cycle in server-side programming with an example.	

12 A	Describe the role of middleware in Express.js and give examples of its usage.	
OR		
12 B	Describe error handling in Express.js. How can you define custom error-handling middleware?	
13 A	Explain the process of handling requests and responses in a Django web application. How does Django's architecture facilitate this process?	
OR		
13 B	Compare Flask and Django as Python web frameworks. Discuss the key differences and ideal use cases?	
14 A	Explain how MongoDB ensures data consistency and availability through its replication mechanism.	
OR		
14 B	Discuss the methods and tools available for migrating data into MongoDB from SQL databases.	
15 A	Discuss the significance of Spring Boot annotations, providing examples of commonly used annotations.	
OR		
15 B	Explain Hibernate Logging by Log4j using xml file with example.	