



DHARMSINH DESAI UNIVERSITY, NADIAD
FACULTY OF TECHNOLOGY
SECOND SESSIONAL
SUBJECT: (CE-627) WEB SERVICE DEVELOPMENT

Examination : B.Tech Semester - VI
Date : 07/02/2025
Time : 2:30 p.m. to 3:45 p.m.

Seat No. : 103
Day : Friday
Max. Marks : 36

INSTRUCTIONS:

1. Figures to the right indicate maximum marks for that question.
2. The symbols used to carry their usual meanings.
3. Assume suitable data, if required & mention them clearly.
4. Draw neat sketches wherever necessary.

- Q.1 Do as directed. [12]**
- CO3 E (a)** What is the difference between Conventional routing and Attribute based routing in web API? [2]
- CO3 N (b)** What is the difference between PUT and PATCH method? [2]
- CO3 A (c)** List out various REST principles. [2]
- CO3 U (d)** Explain **CreatedAtAction** method with its syntax. [2]
- CO3 R (e)** Explain the purpose of following HTTP status codes: [2]
1. 202
 2. 403
- CO3 A (f)** What is the full form of DTO? Describe its usage in web API. [2]
- Q.2 Attempt ANY TWO of the following questions. [12]**
- CO2 A (a)** Assume that there is a WCF service for the calculation of the area of a Rectangle. Create a Windows Forms host application for the given service and host the service using two different bindings (TCP and HTTP). Use TCP and HTTP for metadata exchange and for communication. Write the code for the corresponding App.config file and Form.cs file. [6]
- CO2 A (b)** Create a WCF service with a custom MessageContract for request and response messages as per the below details. [6]
- The RequestMessage contains RequestorName as header and CustomerId as Body.
 - ResponseMessage contains ResponseTime as header and CustomerName as body.
 - Define the operation GetCustomerDetails and implement the service.
- CO2 A (c)** Assume that the service described in Q.2(a) is already hosted using two different bindings. Create a windows form client to consume this service. In the client, give options to specify which type of binding should be used while invoking the service. Draw the design layout and write the code for app.config as well as form.cs file. [6]
- Q.3 Attempt the following questions. [12]**
- CO3 U (a)** What is JWT token? Explain the process of JWT authentication with [Authorize] keyword in Web API using a Flow Chart. [6]
- CO3 N (b)** Develop Web API for user management system with the below details. [6]
- Define User model (UserId, FirstName, LastName, Email and DOB)
 - Define UserDTO (UserId, Full Name (Should be equal to FirstName + LastName, Email and DateOfBirth)
 - Define corresponding Mapping Profile class.
 - Define controller with one GET method to fetch details of all users.

OR

- Q.3 Attempt the following questions. [12]**
- CO3 U (a)** Develop Web API for Product management system with the below details: [6]
- Define Product model (ProductId, Name, Description, Price, Category).
 - Create API Controller to demonstrate FromForm, FromBody, FromRoute and FromQuery.
- CO3 N (b)** Explain the use of Run, Use and Map method in context of Web API middle wares with sample usage. [6]