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**VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE
(AUTONOMOUS)**

**III/IV B.Tech. DEGREE EXAMINATION, DECEMBER, 2022
Fifth Semester**

**INFORMATION TECHNOLOGY
20IT5404B DOT NET TECHNOLOGIES**

Time: 3 hours

Max. Marks: 70

Part-A is compulsory

Answer One Question from each Unit of Part - B

Answer to any single question or its part shall be written at one place only

PART-A

10 x 1 = 10M

1. a. Define memory management. **(CO1 K1)**
- b. Write the syntax for creating a class and object. **(CO1 K1)**
- c. Define event. **(CO2 K1)**
- d. Give the structure of generic data type. **(CO2 K1)**
- e. What is relational database management system? **(CO3 K1)**
- f. Give the syntax for establishing a connection to a database. **(CO3 K2)**
- g. Write the major differences between classic ASP.NET and modern ASP.NET. **(CO4 K1)**
- h. Define EF core. **(CO4 K1)**
- i. What is platform support? **(CO1 K2)**
- j. What is shared layout in Razor pages. **(CO4 K1)**

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PART-B

4 x 15 = 60M

UNIT-I

2. a. Explain about method overriding with an example. **(CO1 K2) 7M**
b. Discuss about typecasting and this reference in C#. **(CO1 K2) 8M**

(or)

3. a. Explain de-constructors with an example. **(CO1 K2) 5M**
b. What is inheritance? Explain different types of inheritance with an example. **(CO1 K2) 10M**

UNIT-II

4. a. Explain about multicast delegates with an example. **(CO2 K2) 8M**
b. Illustrate briefly about lambda expressions. **(CO2 K2) 7M**

(or)

5. a. Discuss about event accessors and event modifiers in C#. **(CO2 K2) 8M**
b. Describe how instance and static method targets are used in C#. **(CO2 K2) 7M**

UNIT-III

6. a. Write the procedure to create the North wind sample database for SQL server. **(CO3 K2) 7M**
b. Discuss how to filter and sort products in Product table? **(CO3 K2) 8M**

(or)

7. a. Differentiate between lazy and explicit loading. **(CO3 K2) 7M**
b. Explain the following with respect to EF core.
i) Inserting entities
ii) Deleting entities **(CO3 K2) 8M**

UNIT-IV

8. a. Explain about how testing and securing the website in ASP.NET. **(CO4 K2) 6M**
b. Briefly explain how client side web development technologies are used for websites. **(CO4 K2) 9M**

(or)

9. a. Describe the procedure for injecting a dependency service into a Razor page. **(CO4 K2) 8M**
b. Explain about using code-behind files with Razor pages. **(CO4 K2) 7M**

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