Tribhuvan University
Institute of Science and Technology
2081
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Bachelor Level / Third Year /Six Semester/Science   Full Marks: 60
Computer Science and Information Technology (CSC 367)   Pass Marks: 24
(NET Centric Computing)   Time: 3 hours.
(NEW COURSE)

Candidates are required to give their answers in their own words as for as practicable.
The figures in the margin indicate full marks.

Section A

Attempt any TWO questions.   [2 × 10 = 20]

1. List the differences between docker service and container. Illustrate with an example to validate a simple form that consists of a name, email, address and date of birth using JQuery.   [3 + 7]

2. Describe about Mono's ASP.NET implementation. How do you compile and execute .NET application? Describe the mechanisms to add support for experimental HTTP methods in ASP.NET core.   [2 + 3 + 5]

3. Explain the methods for model binding and routing in ASP.NET core. How do you use JSON to serialize and deserialize objects between the client and server in ASP.NET core?   [5 + 5]

Section B

Attempt any EIGHT questions.   [8 × 5 = 40]

4. Show the chain of constructor in inheritance with an example.   [5]

5. Why do we need to render HTML? Justify with an example.   [5]

6. Describe the two ways that ADO.NET use to fetch data from the database.   [5]

7. How do you read, write and remove cookies in ASP.NET core?   [5]

8. Illustrate an example that shows the prevention from SQL injection attack.   [5]

9. Define controller. Explain the needs of abstract class, sealed class and partial class.
          [1 + 4]

10. Differentiate between ADO.NET and Entity Framework.   [5]

11. Write a program in C# to find the positive numbers from a list of numbers using multiple where conditions in LINQ Query.   [5]

12. Write short notes.   [2 X 2.5= 5]
    a) Hidden field
    b) Claim and policy