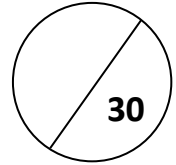


Entity Framework

Name : _____ Employee Id : _____
Mail Id : _____ Date : _____

Note: All Questions are compulsory



1. What does the following express evaluate to?

```
string[] colors = {"green","brown","blue","red"};  
colors.Max(c => c.Length);
```

- a. 5
- b. green
- c. brown
- d. compile-time error
- e. Exception thrown

2. What does this express evaluate to?

```
string[] colors = {"green","brown","blue","red"};  
colors.OrderBy(c => c.Length).Single();
```

- a. 3
- b. red
- c. Compile-time error
- d. Exception thrown

3. Given the following statement:

```
string[] colors = {"green","brown","blue","red"};  
var query = from c in colors  
where c.Length > 3  
orderby c.Length  
select c;
```

What type is query?

- a. int
- b. string
- c. IEnumerable<int>
- d. IEnumerable<string>
- e. IQueryable<int>
- f. IQueryable<string>

4. What's the output from the following?

```
string[] colors = {"green","brown","blue","red"};
var query = from c in colors
where c.Length == colors.Max(cc => cc.Length)
select c;

foreach(var element in query)
    Console.WriteLine(element);
```

- a. Green followed by brown
- b. 5 followed by 5
- c. Compile-time error
- d. Exception is thrown

5. What does the following example output?

```
string[] colors = {"green","brown","blue","red"};
var list = new List<string> (colors);
IEnumerable<string> query = list.Where (c => c.Length == 3);
list.Remove("red");

Console.WriteLine(query.Count());
```

- a. 0
- b. 1
- c. 2
- d. Exception thrown

6. What's the output from the following?

```
string[] colors = {"green","brown","blue","red"};
var query = colors.Where (c => c.Contains("e"));
query = colors.Where (c => c.Contains("n"));

Console.WriteLine(query.Count());
```

- a. 1
- b. 2
- c. 3
- d. 4

7. What's the output from the following?

```
string[] colors = {"green","brown","blue","red"};  
string s = "e";  
var query = colors.Where (c => c.Contains (s));
```

```
s = "n";  
query = query.Where (c => c.Contains (s));
```

```
Console.WriteLine (query.Count());
```

- a. 1
 - b. 2
 - c. 3
 - d. 4
- 8. C# 3.0 offers which new keyword that allows us to declare a local variable without having to specify its type explicitly**
- a. dim
 - b. variable
 - c. var
 - d. local
- 9. Which feature of C# 3.0 allow us to add methods to a type after it has been defined.**
- a. Static Methods
 - b. Lambda Expressions
 - c. Extension Methods
 - d. Anonymous Methods
- 10. In order to transform our static method to an extension method, all we have to do is add the this keyword to the first parameter.**
- a. True
 - b. False
- 11. Entity Framework moves the entity model into three XML files that are used by the EF runtime.**
- a. True
 - b. False

- 12. Using Code First model, how can you mark a field/property as the primary key if it does not follow the code first convention?**
- a. [PrimaryKey]
 - b. [Key]
 - c. [EFKey]
 - d. [DBKey]
- 13. How do you mark a property as required?**
- a. [Required]
 - b. [NotNull]
 - c. [Mandatory]
 - d. none of the above
- 14. Using Code First model, how do you exclude a property not mapped to any column in the table?**
- a. [Exclude]
 - b. [NoMap]
 - c. [NotMapped]
 - d. None of the above
- 15. Using the DbContext API's in Entity Framework 4.1, how do you eager load related entities.?**
- a. EagerLoad()
 - b. Include()
 - c. Explicit()
 - d. none of the above
- 16. How can you disable lazy loading of related entities accessed via navigation properties using Code First model?**
- a. Apply virtual keyword for that navigation property
 - b. Remove virtual keyword for that navigation property
 - c. It's not possible to disable lazy loading
 - d. none of the above
- 17. Lazy loading can be turned off for all entities in the context by setting a flag on the Configuration property on the context property.**
- a. true
 - b. false

18. Choose all components of .edmx file

- a. Conceptual Model (.csdl)
- b. Storage Schema (.ssdl)
- c. EF Model (.efdl)
- d. Mapping (.msl)

19. Which of the following is NOT TRUE about the Entity Framework?

- a) It automatically generates the classes from the model and updates these classes dynamically when the model is changed.
- b) It takes care of database connectivity.
- c) It provides query syntax for querying the model
- d) It does not provide any mechanism to track changes to the model's objects.

20. With Entity Framework, the queried data is returned as rows and columns or data table records.

- a. true
- b. false