



UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 3, Examination in Engineering, August 2018

Module No: EE3204 Module Name: GUI Programming
Part - I
[ONE hour]

Instructions for candidates

- Write your index number on top of every page.
- Question paper contains 50 multiple choice questions.
- For each question, put an X mark on the letter: (a), (b), (c) or (d) which corresponds to the correct answer, by using a black or blue pen.
- Each correct answer carries 0.5 marks.

-
1. What does AVD stand for in Android development?
 - (a) Android Virtual Development
 - (b) Android Virtual Devices
 - (c) Application Virtual Development
 - (d) None of the above
 2. Which of the following can be used to display non-editable text in Android?
 - (a) TextBlock
 - (b) TextBox
 - (c) EditText
 - (d) TextView
 3. Which of the following is Android Layout?
 - (a) Grid
 - (b) StackPanel
 - (c) ConstraintLayout
 - (d) LinearPanel
 4. Which of the following can be used to give relative dimension for views in Android LinearLayout?
 - (a) layout_gravity
 - (b) layout_weight
 - (c) gravity
 - (d) None of the above.
 5. To create an activity, which base class do you want to extend?
 - (a) ActivityCompact
 - (b) Activity
 - (c) Application
 - (d) None of the aboven
 6. When onPause() event fires in Android activity life cycle?
 - (a) when user press pause button activity.
 - (b) when activity is created
 - (c) when activity is destroyed
 - (d) None of the above.

7. Name the permissions you need to declare in your AndroidManifest.xml file for an HTTP connection.
 - (a) INTERNET
 - (b) WWW
 - (c) HTTP
 - (d) NETWORK
8. Which of the following class can be used to display a message to the user?
 - (a) MessageBox
 - (b) Window
 - (c) Toast
 - (d) Dialog
9. What does Microsoft WPF stand for?
 - (a) Windows Presentation Framework
 - (b) Windows Presentation Foundation
 - (c) Windows Painting Framework
 - (d) None of the above
10. What does XAML stands for?
 - (a) Extensible Accessible Markup Language
 - (b) Extensible Markup Language
 - (c) XML and Microsoft Language
 - (d) None of the above
11. Which object can be used share the variable across pages in WPF?
 - (a) Application
 - (b) Session
 - (c) Cookies
 - (d) Viewstate
12. WPF transformations can be used for
 - (a) Only rotation
 - (b) Only scaling
 - (c) Only skewing
 - (d) Rotation, scaling, and skewing
13. WPF separates the appearance of an user interface from its behavior. The appearance is generally specified in the
 - (a) HTML
 - (b) C#.cs file
 - (c) XAML
 - (d) XML
14. Transformations are available in which namespace?
 - (a) System.Windows.UIElement
 - (b) System.Windows,FrameWorkElement
 - (c) System.Windows.Media
 - (d) None of above
15. Which tool(s) is/are used to develop WPF applications?
 - (a) Visual Studio
 - (b) Expression Blend
 - (c) Both (a) and (b)
 - (d) none of (a) and (b)
16. Which property you can use to make the control semi-transparent?
 - (a) TranceParent
 - (b) Semi-Tranceparent
 - (c) Opacity
 - (d) Mask
17. For Showing the dialog box modally which method is used?
 - (a) Show
 - (b) ShowDialog
 - (c) Show modally
 - (d) OpenDialog
18. Which class is used for data binding in WPF?
 - (a) Data

- (b) DataReader
(c) Binding
(d) System.Data
19. For 2-D Transformation WPF supports the following classes?
- (a) RotateTransform
(b) ScaleTransform
(c) SkewTransform
(d) All of the above
20. What layout panel does not belong to Windows 10 universal application?
- (a) RelativePanel
(b) StackPanel
(c) Grid
(d) None of the above
21. Which of the following is a layout control in WPF?
- (a) WrapPanel
(b) DockPanel
(c) Canvas
(d) All of the above
22. Which triggers are available in WPF?
- (a) Event triggers
(b) Data triggers
(c) Property triggers
(d) All of the above
23. For 2D transformations WPF supports
- (a) scale transform
(b) rotate transform
(c) skew transform
(d) all of the above
24. What are the different data binding modes available in WPF?
- 1) OneWay
2) TwoWay
3) OneTime
4) OneWayToSource
- (a) 1 and 2
(b) 1, 2 and 3
(c) 2 and 4
(d) 1,2,3 and 4
25. Which Two types of Logical Resources available in WPF?
- (a) StaticResource and Dynamic Resource
(b) StaticResource and CompileResource
(c) WPF does not support Logical Resources
(d) None of the above
26. Which of the following brushes not used in WPF?
- (a) RadialGradientBrush
(b) ImageBrush
(c) SolidColorBrush
(d) GradientBrush
27. What is the best XAML layout for producing the output in Figure 1?

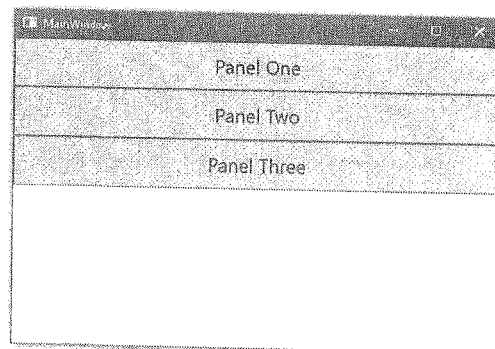


Figure 1: Simple layout example

- (a) GridPanel
- (b) DockPanel
- (c) StackPanel
- (d) Canvas

28. What is the best XAML layout for producing the output in Figure 2?

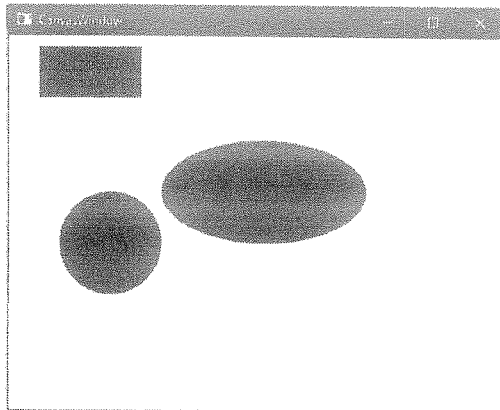


Figure 2: Simple layout example

- (a) Grid
- (b) DockPanel
- (c) StackPanel
- (d) Canvas

29. What is the best XAML layout for producing the output in Figure 3?

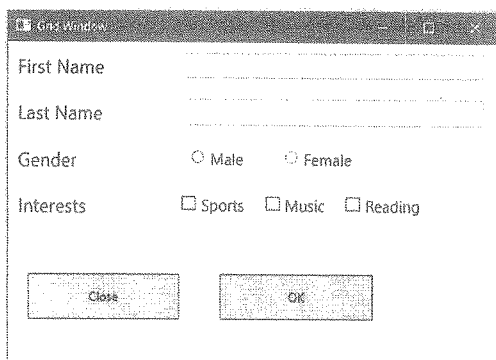


Figure 3: Simple layout example

- (a) Grid
- (b) DockPanel
- (c) StackPanel

- (d) Canvas

30. What is the best XAML layout for producing the output in Figure 4?

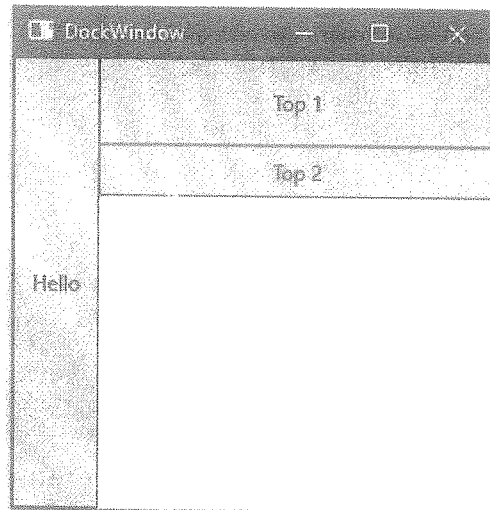


Figure 4: Simple layout example

- (a) Grid
- (b) DockPanel
- (c) StackPanel
- (d) Canvas

31. Choose the correct statement about the properties used in C#.NET?

- (a) Each property consists of accessors as get and set
- (b) A property can be either read or write only
- (c) Properties can be used to store and retrieve values to and from the data members of a class.
- (d) None of the above is correct.

32. What is two way element to element binding in XAML?

- (a) Binding one property of an element to two other properties.
- (b) Binding one property of an element to another property of the other.

- (c) Binding one property of an element to another property of the other and vice versa.
- (d) None of the above
33. Which of the following development approaches are supported in Entity Framework?
- (a) Code First
- (b) Database First
- (c) Model First
- (d) All of the above
34. What is MVVM stands for?
- (a) Model View Controller Pattern.
- (b) ModelView View Model Pattern.
- (c) Model View ViewModel Pattern.
- (d) None of the above is true.
35. What can be the first tag in any HTML document?
- (a) `<head>`
- (b) `<title>`
- (c) `<html>`
- (d) `<document>`
36. Choose the correct HTML tag for displaying list with numbers.
- (a) `<list>`
- (b) `<item>`
- (c) ``
- (d) ``
37. Which tag allows you to add a row in a table?
- (a) `<td>`
- (b) `<th>`
- (c) `<tr>`
- (d) `<row>`
38. What is the wrong statement about HTML Attributes?
- (a) All HTML elements can not have attributes.
- (b) Attributes come in name/value pairs like: name="value".
- (c) Attributes are always specified in the start tag.
- (d) Attributes provide additional information about an element.
39. How can you make a list that lists the items with bullets?
- (a) ``
- (b) `<list>`
- (c) ``
- (d) `<dl>`
40. In HTML5, which element is used to specify a header for a document or section?
- (a) `<headings>`
- (b) `<header>`
- (c) `<hgroup>`
- (d) `<head>`
41. What is correct about the following CSS rule?
- ```
h1, p {
 text-align: center;
 color: red;
}
```
- (a) Text `<p>` element within `<h1>` element become red.
- (b) Text `<h1>` element becomes center aligned and `<p>` element becomes red.
- (c) Text in `<p>` and `<h1>` element become: center aligned and red.
- (d) None of the above is correct.
42. Following Style is applied to -

```
h1.main p {
font-size: 18px;
margin-top: 0;
}
```

- (a) <p> element and <h1> element with class *main*.
- (b) <p> element within <h1> element of class *main*.
- (c) <p> element within <h1> element with attribute *main*.
- (d) None of the above
43. The ..... property is mostly used to show text in upper case.
- (a) text-effect
- (b) text-transform
- (c) text-decoration
- (d) text-style
44. What is true about following code segment?
- ```
div > p {
background-color: yellow;
}
```
- (a) when <p> element is a descendant of <div> element, background color is yellow.
- (b) when <p> element is a immediate child of <div> element, background color is yellow.
- (c) when <p> element is a sibling of <div> element, background color is yellow.
- (d) when <p> element is inside of <div> element, background color is yellow.
45. What is the correct way of applying a top and bottom margins of 10px and left and right margins of 20px to a <p> element?
- (a) margin: 20px 10px;
- (b) margin: 10px 20px;
- (c) margin: 20px 10px 0px 0px;
- (d) margin: 10px 20px 0px 0px;
46. What is the correct statement about following code segment.
- ```
a.highlight:hover {
color: #ff0000;
}
```
- (a) when mouse move over an <a> element, the link turns blue.
- (b) when mouse move over an <a> with class highlight element, the link turns blue.
- (c) when mouse move over an <a> element, the link turns red.
- (d) when mouse move over an <a> with class highlight element, the link turns red.
- Listing 1: HTML5 Document
- ```
<!DOCTYPE html>
<html>
<head></head>
<body>
<header>
<h1>Welcome to my Web Page</h1>
</header>
<nav>
<ol>
<li>Home</li>
<li>Products</li>
<li>Contact</li>
</ol>
</nav>
<section id="main">
<h1>Heading</h1>
<p>Bunch of awesome para</p>
<p class="red">Red para</p>
<p id="end">End para</p>
</section>
<footer>
```

```

    <p>Created by me.</p>
  </footer>
</body>
</html>

```

47. The following CSS style rules are defined in the HTML document in Listing 1.

```

p { color: blue;}
p { color: green; }

```

Which of the following statements is correct?

- (a) `<p>` will not show because of the conflicting rules.
 - (b) first `<p>` will be blue and rest will be green.
 - (c) All `<p>` paragraphs will be blue.
 - (d) All `<p>` paragraphs will be green.
48. The following CSS style rules are defined in the HTML document in Listing 1.

```

section p { color: blue;}
p { color: green; }

```

Which of the following statements is correct?

- (a) All `<p>` paragraphs will be blue.
- (b) All `<p>` paragraphs will be green.
- (c) All `<p>` except inside the `<section>` element will be green.
- (d) None of the above is correct.

49. The following css style rules are defined in the html document in Listing 1.

```

footer p { font-size: 1.6em }
p { color: green; }

```

Which of the following statements is correct?

- (a) All `<n>` paragraphs will have font size 1.6em.
 - (b) All `<p>` paragraphs will be green.
 - (c) All `<p>` except inside the `<footer>` element will be green.
 - (d) None of the above is correct.
50. The following CSS style rules are defined in the HTML document in Listing 1.

```

nav ol li:nth-child(2n+1) {
  background-color: red; }
nav li {
  background-color: blue }
li {
  background-color: green}

```

which of the following statements is correct?

- (a) All `` elements will be green.
- (b) All even `` paragraphs will be red.
- (c) All even `` elements will be blue.
- (d) All even `` elements will be green.