



Attempt All Questions:

Maximum Markas:90

Question 1 : Complete the following :

- (1) Dim x+y as integer , this statement is wrong because
- (2) $10 \bmod 3 = \dots\dots\dots$
- (3) $11 \setminus 2 = \dots\dots\dots$
- (4) Dim x(5) , means number of elements equal
- (5) Array is a data type.
- (6) we can write comment by using
- (7) redim statement is used for
- (8) we can run the program by using
- (9) const PI as single=3.14 : PI=PI+3 , this means PI =
- (10) The precedence order of logical operators (AND , OR , NOT) is

(10 Marks)

Question 2 (50 Marks) : Write a console application program (a separate program for each point) to :

- (1) Calculate the triangle area?
(5 Marks)
- (2) Calculate the factorial of any number n?
(6 Marks)
- (3) Print out the product table for numbers from 1 to 8 .
(6 Marks)
- (4) Determine if the entered number n is a prime number or not using function?
(7 Marks)
- (5) Arrange array of numbers in an descending order and then find the maximum and minimum number.
(8 Marks)
- (6) Count digits , capital letters and special characters in a string , each in different counter , then print out the three counters.
(8 Marks)
- (7) print out the following shape

```
1 2 3 4 5
2 3 4 5 1
3 4 5 1 2
4 5 1 2 3
5 1 2 3 4
```

(10 Marks)

Question 3 (20 Marks) : Design and Program a Windows Application Form for :

- (1) A simple Calculator .
- (2) An Age Calculation .

Question 4 (15 Marks) : Design and Program the following form which :

- a- Displays the text select from the **List box** above the **label**
- b- Changes the style and the color of the text written above the **Label**
- c- Add the text written in the **Textbox** to the **List box** when clicking on **Add** button
- d- Remove the selected item from the **List box** when clicking on **Remove** button

| | | | |
|-----------------------------------|----------------------|---------------------------------------|--|
| Style | | Colors | |
| <input type="checkbox"/> Bold | | <input type="radio"/> Blue | |
| <input type="checkbox"/> Italic | | <input type="radio"/> Yellow | |
| <input type="checkbox"/> Undeline | | <input type="radio"/> Pink | |
| List box | Textbox | <input type="text"/> | |
| | | <input type="button" value="Add"/> | |
| | | <input type="button" value="Remove"/> | |
| Label | <input type="text"/> | | |

With My Best Wishes
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