

STD 10, ICT CHAPTER 4, THEORY QUESTIONS AND ANSWERS BY SUSEEL KUMAR

4. PYTHON GRAPHICS

Part 1

1. Which one of the following statement related to IDLE is correct?

a IDLE is a programming language	b IDLE is an animation software
c IDLE is a graphic software	d IDLE is a IDE software

Ans. **d** IDLE is a IDE software

2. Which of the following is an additional software used to create geometric shapes in Python programming?

a turtle	b import
c python shell	d IDLE

Ans. **a** turtle

3. Which is the command to rotate the turtle 90° to the right in the Python Graphics Program?

a rt(90)	b lt(90)
c fd(90)	d circle(90)

Ans. **a** rt(90)

4. Which of the following is the first command to be given in a Python graphics program?

a clear()	b begin_fill()
c from turtle import*	d forward()

Ans. **c** from turtle import*

5.

```

from turtle import*
for i in range(4):
    forward(100)
    right(60)

```

Above given is a Python Programme to create a square. But when the programme was run the square was not created. Which command in the programme have gone wrong?

a	from turtle import*	b	for i in range(4):
c	forward(100)	d	right(60)

Ans. **d** right(60)

6.

```

from turtle import*
forward(100)
left(130)
forward(100)

```

Identify the output of the given Python program.

a	An angle with 50° size	b	An angle with 130° size
c	Only a line with 100 unit length	d	Only a line with 200 unit length

Ans. **a** An angle with 130° size

7.

In Python Programming it may be needed to give statements to execute repeatedly within another set of statements for repeated actions. Identify from the following the names for such statements.

a	Loop	b	Loop staement
c	Statement	d	Nested Loop

Ans. **d** Nested Loop

8.

```

from import turtle*
for i in range(3):
    forward(80)
    right(120)

```

Given above is a Python program. When it is run, a message showing Invalid Syntax is displayed. Identify the wrong statement.

a	from import turtle*	b	for i in range(3):
c	forward(80)	d	right(120)

Ans. **a**

from import turtle*
Nested Loop

9.

```

from turtle import*
for i in range(4):
    forward(100)
    .....

```

Identify the statement which can be used in the given Python program to get the output as a Square?

a	right(120)	b	right(90)
c	right(72)	d	right(60)

Ans. **b**

right(90)

10. Which of the following is the Python statement used for repeated execution of commands?

a	for	b	range()
c	forward()	d	right()

Ans. **a** for

Part 2

1. Which of the following instructions in Python can be used to give colour to the figure drawn using Python graphics

a	clr()	b	color()
c	colour()	d	pencolor()
e	pen()	Ans. b & d	

- 2.

A python program to get a circle as output is given. Choose from the following the two correct statements related to the instruction, `color("blue","yellow")` in this program

```
from turtle import*
color("blue", "yellow")
begin_fill()
circle(60)
end_fill()
```

a	A circle with blue colour is printed	b	A circle with yellow coloured border is drawn
c	A circle is printed. Its border will be half yellow and half blue in colour	d	The circle is filled with blue colour.
e	The circle is filled with yellow colour.	Ans. a & e	

3. Some words and their explanations related to Python Programming Language are given below. Choose the right ones

<p>Turtle : additional software that is needed to create geometric shapes using python</p> <p>a</p>	<p>Geany : A programming language</p> <p>b</p>
<p>IDLE: An editor for typing and running the programs in Python Language</p> <p>c</p>	<p>Loop Statement : An instruction to create only geometrical shapes</p> <p>d</p>
<p>Python Shell : A place where the geometrical shapes appears while running the python program</p> <p>e</p>	<p>Ans. a & c</p>

4.

A python program for creating attractive squares is given. Choose from the following the two correct statements related to this program

```
from turtle import*
for i in range(6):
    right(60)
    color("black", "blue")
    begin_fill()
    for j in range(4):
        forward(100)
        right(90)
    end_fill()
```

<p>The instructions begin_fill() and end_fill() should be at the same tab position</p> <p>a</p>	<p>The output of the program will be a pattern with squares. Their borders will be black in colour. Their fill colour will be blue</p> <p>b</p>
<p>The output of the program will be a pattern with squares. Their borders will be blue in colour. Their fill colour will be black</p> <p>c</p>	<p>The output of the program will be a pattern with 4 squares</p> <p>d</p>
<p>The output of the program will be a pattern with 24 squares</p> <p>e</p>	<p>Ans. a & b</p>

5. Choose from the following the Integrated Development Environments (IDE) that are used for typing and running the programs in Python Language

a	Java	b	CPP
c	Turtle	d	Geany
e	IDLE	Ans. d & e	

- 6.

```
from turtle import*
for i in range(5):
    .....
    .....
```

The beginning of a Python program for creating a regular pentagon with sides length of 50 units is given. Complete the program by choosing from the right options below.

a	forward(50)	b	forward(72)
c	right(72)	d	right(50)
e	pensize(50)	Ans. a & c	

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