St. Aloysius S.S.School, Cantt., Jabalpur

Class 11 IP

Unit 1: Dated : 06/4/2020

Week 2

Solved and unsolved questions for you.

1 are instructions given to a cor	mputer.
2. Python was developed by	-
3 is interpreted.	
4. Python syntax is	
5. In Python, a syntax error is detected by the	at
6. Python is a independent la	nguage.
7. Which of the following codes is correct?	
I:	
print ("Programming is fun")	
print("Python")	
print("Computer Science")	
II:	
print ("Programming is fun)	
print("Python")	
print("Computer Science)	
rint("Programming is fun") rint("Python")	
rint ("Computer Science")	
rint("Programming is fun") rint("Python")	
TABLE ("Com-	
o start Python from the command prompt, use th	command

10. Python programming of	all De done in	or and	extension. modes.
ANSWERS TO FILL IN TI	HE BLANKS		
Programs Interpreter, runtime	2. Guido van Rossum	3. Python 7. I	4. Case-sensitive 8. Run Python
SOLVED QUESTIONS =			
1. What is Python? Ans. Python is a bigh lovel.	internation of the control of the co		
Anne I Linear 12 & HIRIL-16AGE	interpreted dynamic Object of	Cambridge B	
programming.	interpreted, dynamic, Object-or	riented Programming La	inguage that supports G
2. Why is Duthan intames	20.35		
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Ans. Python is interpreted to need to compile your p	eted? because the program is process program before executing it.		
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- Ans. Python library is very portable and cross-platform compatible with UNIX, Windows and Macintosh. [HOTS]
- Ans. The normal execution of Python program is interpreted. However, subsets of the language can be compiled.
 - 7. Python is a free and open-source language. What do you understand by this feature?
- Ans. As we do not have to pay anything to download it. Python signifies that it is a free and open-source language. Also, being an open-source language, its source code is also available if we wish to modify it.
 - 8. State some distinguishable features of Python.
- Ans. Python is a modern, powerful, interpreted language with objects, modules, exceptions (or interrupts) and automatic memory management. It was introduced to the world by Guido van Rossum in the year 1991.

Salient Features of Python are:

- Simple and Easy: Python is a simple language that is easy to learn.
- Free/Open source: Anybody can use Python without the need to purchase a licence.
- · High-level Language: Being a high-level language, it can be easily understood by the user without the need to be concerned with low-level details.
- Portable: Python codes are machine and platform-independent.
- Extensible and Embeddable: Python programs support usage of C/C++ codes.
- Standard Library: Python standard library contains pre-written tools for programming.
- 9. Distinguish between Java and Python.

Ans. Java and Python can be distinguished on the following bases:

- (a) Python programs run slower than Java codes but Python saves much time and space. Python programs are 3 to 5 times smaller than Java programs.
- (b) Python is a loosely-typed dynamic language as no time gets wasted in declaring variable types as in
- (c) Python is easier to learn as compared to Java.
- 10. Python is a cross-platform language. How?
- Ans. A cross-platform language signifies that it is compatible and can run well on several platforms like Windows, Macintosh, Linux/Unix, etc.

11. What is the difference between	interactive mode and script mode	in Python?
Ans. In interactive mode, instructions out the given instructions and sh in script mode, Python instruction	are given in front of Python promot	(>>>) in Python Shell. Python
12. Give the output for the following	3:	7
(a) print("Hello")	(b) print(5.5)	(c) print (4+6)
Ans. >>> print("Hello")		(0) PIIIIC(410)
Hello		
>>> print (5.5)		
5.5		
>>> print(4+6)		
10		
13. Which of the following are inval	id strings in Python?	
(a) 'Python"	(b) "Python"	(c) "Python"
(d) 'Python'	(e) (Python)	100
Ans (a) (b) and (a) are the invalid str	ings in Buthon	

UNSOLVED QUESTIONS

- 1. When was Python introduced?
- 2. Who developed Python and which two languages contributed to Python as a programming language
- 3. Is Python case-sensitive?
- 4. What is IDLE?
- 5. Differentiate between displaying and printing method in Python.
- 6. Briefly explain the salient features of Python.
- 7. What do you understand by cross-platform software with respect to Python?
- 8. What are the advantages of Python programming language?
- 9. In how many different ways can you work in Python?
- 10. What are the advantages/disadvantages of working in Interactive mode in Python?
- 11. Write instructions to the Interactive mode for the following:
 - (a) To display sum of 3, 8.0, 6*12
- (b) To print sum of 16, 5.0, 44.0

```
11. Write instructions to the Interactive mode for the following:
                                       (b) To print sum of 16, 5.0, 44.0
   (a) To display sum of 3, 8.0, 6*12
12. Write instructions to get the following result:
   Python is easy to learn and write.
   It allows us to work in two modes: Interactive mode and Script mode.
   Interactive mode is also known as Python Shell and Script mode is known as Python Edi
   It is a platform-independent language.
   We find it interesting to work with Python.
   Do it in both interactive mode and script mode.
13. Write a code that prints your full name and your birthday as separate strings.
14. Record what happens when the following statements are executed:
    (a) print (n=17)
                                        (b) print (8+9)
    (c) print (4.2, "hello", 6-2, "world", 15/2.0)
15. Use IDLE to calculate:
    (a) 6+4*10
                                        (b) (6+4) *10
16. Try the following code on the Python shell and evaluate the output generated:
    >>>print(3.14159*7)
    >>>print('I am a class XI' + 'student')
    >>>print('I', 'm')
    >>>print("class XI student")
    >>>print("I 'm', 16, "years old")
```

***********End*******