

DELHI PUBLIC SCHOOL JAMMU
Assignment Half Yearly (2019)

CLASS: XI

SUBJECT : COMPUTER SCIENCE

Q1. "Python is an interpreted high level language". What does this mean?

Q2. Write two advantages and disadvantages of Python.

Q3. What is the difference between a keyword and an identifier? Give example.

Q4. Which of the following identifiers are valid? Give reasons, if invalid:

INFO-PR, MYFILE, , while , comp_sc

Q5 : Write programs in Python :

i) To print Fibonacci series.

ii) To input a number and test if it is a prime number.

Q6 : Write the names of list methods to perform the following :

Delete a given element from the list.

(i) Add an element in the end of the list.

Q7. Convert the following :

a. $(1011010)_2$ to Hexadecimal

b. $(723)_8$ to Decimal

c. $(110110111)_2$ to Octal

d. $(215)_2$ to Binary

Q8. Rewrite the following code fragment using for loop:

```
num=20
while(num > 0):
    count += 1
    sum += num
    num -= 2
    if(count == 10):
        print(sum//count)
        break
        break
```

Q9: What is a language processor? Write the name of two language processors.

Q10. How many possible code groups can be formed by ASCII code (ASCII is a 7 bit code) ?

Q11. Which of the following identifiers are valid? Give reasons , if invalid:

INFO-PR, MYFILE, , while , comp_sc

Q12. Write a Program to generate the table of a number using for loop.

Q13. Write a program to calculate and display the factorial of an inputted number.

Q14. Describe Flow chart, decision tree and pseudo-code.

Q15. What is the purpose of 'else' in a loop?

Q16. Write logical expression for the following:

- a) Either A is greater than B or A is less than C.
- b) Name is Aman and age is between 18 and 35.
- c) Place is either 'Delhi' or 'Goa' but not 'Jaipur'.

Q17. Write a program to convert temperature in Celsius into Fahrenheit. Also write pseudo-code for the same.

Q18. What is a string? What do you understand by traversing a string?

Q19. Write the word 'hello' letter by letter.

Q20. Write a program to count the number of vowels in the string pineapple.