

**J P CBSE
PERIODIC TEST -I
CLASS XI
SUBJECT -COMPUTER SCIENCE**

MM 50

Time 1:30 Hrs.

**All questions are compulsory
Programming Language: Python**

- Q 1 a) Convert 7MB to equivalent KB. [1]
- b) What do you mean by ASCII code. [1]
- c) Differentiate between RAM and ROM [2]
- d) Convert the Following as Directed [2 X 4=8]
- (i) $(53)_{10} = ()_2$ (ii) $(A4)_{16} = ()_{10}$
- (iii) $(79)_8 = ()_{10}$ (iv) $(11011)_2 = ()_{10}$
- e) Find out the Addition of the Following [3]
- $(10111)_2 + (11001)_2 = (?)_2$
- f) Explain the Principal of Duality ,with Example. [2]
- g) Draw the logic circuit from the following expression [2]
- $AB + A'C$
- h) Prove the following [2]
- $A + A'B = A + B$
- i) Minimise the following [2]
- $A + \{A.(B.C)\}$
- Q 2 a) What are the supported data types in Python? [2]
- b) What are the key features of Python? [3]
- c) How can the ternary operators be used in python? [2]

d) Which one of these is floor division? [1]

- i) /
- ii) //
- iii) %
- iv) None of the mentioned

e) What is the maximum possible length of an identifier? [1]

f) How will you convert a string to an integer in python? [1]

3 a) Write a program in Python to find out the Middle number among three numbers [4]

b) Write a Program in Python to obtain the Grade of a student based on the following criteria

Marks obtain	Grade
Less than 33	D
33 to 44	C
45 to 59	B
60 and above	A

[4]

c) Write a Program to Find out the Simple Interest (SI) [3]

d) Find out the output of the Following – [1.5X2=3]

```
x=20
x=x+5
x=x-10
print (x)
x,y=x-1,50
print (x,y)
```

e) Find out Errors (if any) from the following code and write corrected statement [3]

```
if '1' != 1:
    raise "someError"
else:
    print("someError has not occurred")
except "someError":
    print ("someError has occurred")
```

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