

SAMPLE PAPER

HALF YEARLY

Class XI

Computer Science(083)

Question Paper

SL No	Question	Marks
Q1	Answer the following questions: (a) Define Software? (b) How Many Characters are supported in ASCII? (c) Expand DRAM? (d) Write a python program to print table of 5?	1 1 1 2
Q2	Answer the following questions: (a) Write two features of Linux Operating system? (b) What is a software interrupt? Give an example? (c) What is the difference between c[:] and c[:-1] assuming c is a list? (d) In which generation integrated Circuits(IC) used?	2 2 1 1
Q3	Answer the following questions: (a) Write short note on Object oriented approach. (b) List the differences between compiler and interpreter? (c) What is the difference between range() and xrange()? (d) Write a line of code to execute infinite loop in python.	2 2 1 1
Q4	Answer the following questions: (a) What is Booting? What are the types of booting (b) What is bytecode? (c) Why the statement is not valid? X+1=X (d) How can you know the datatype of a variable?	2 1 1 1
Q5	Answer the following questions: (a) Explain rint() and abs() from math module with an example? (b) What do you mean by Logical errors with an example? (c) What is the role of a comment in a comment in a program ? Is it necessary to comment every line of code? (d) WAP to print area of a circle?	2 2 2 2
Q6	Answer the following questions: (a) WAP to convert temperature from degree to Fahrenheit. (b) What do you mean by Latency? Should it be less or more for ideal system? (c) Given the following code, write down the output? a=3 b=1 For l in range(a): For j in range (b):	2 2 3

	<p>Print ("hello"*i+"oswal"*j)</p> <p>(d) WAP to delete all the even nos from a numeric list.</p>	2
Q7	<p>Answer the following questions:</p> <p>(a) Convert the following:</p> <ol style="list-style-type: none"> 1. $(1011010)_2$ to Hexadecimal 2. $(723)_8$ to Decimal <p>(b) Draw a flow chart to calculate factorial of a number.</p> <p>(c) Rewrite the following code after removing syntactical errors. Underline each correction done in the code.</p> <pre> For name in [amar,shweta,parag] If name[0]='s': Print(name) </pre> <p>(d) Name the function/method required to</p> <ol style="list-style-type: none"> (i) Check if a string contains only alphabets. (ii) Give the total length of the list. 	<p>2</p> <p>3</p> <p>2</p> <p>2</p>
Q8	<p>Answer the following questions:</p> <p>(a) State and prove the DeMorgan's Theorem algebraically.</p> <p>(b) Draw a logic circuit diagram for the following Boolean expression: $X' \cdot (Y' + Z)$</p> <p>(c) Write two characteristics of cloud computing.</p> <p>(d) WAP that computes the real roots of a quadratic equations.</p> <p>(e) WAP to check whether entered string is palindrome or not.</p>	<p>3</p> <p>2</p> <p>2</p> <p>3</p> <p>3</p>
Q9	<p>Answer the following questions:</p> <p>(a) Expand the following:</p> <p>(i) ASCII (ii) MICR (iii) BCD (iv) BOSS</p> <p>(b) Write two differences b/w SIMD and MIMD.</p> <p>(c) Find 2's complement of following:</p> <ol style="list-style-type: none"> (i) -60 (ii) -42 <p>(d) What is Cache memory? How is it different from the primary memory?</p>	<p>2</p> <p>2</p> <p>2</p> <p>2</p>