

WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION

SUBJECT: COMPUTER SCIENCE (COMS)

	CLASS – XII	PRACTICAL	FULL MARKS: 30
1.	MYSQL		10 Marks
	Table creation	3 Marks	
	Data insertion in table	2 Marks	
	2 Queries	5 Marks	
2.	Python Program		12 Marks
	Coding	9 Marks	
	Output	3 Marks	
3.	Lab Book		3 Marks
4.	Viva		5 Marks

Suggested Practical List

List of Suggestive Python Programs

• Input a welcome message and display it.

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- Input two numbers and display the larger / smaller number.
- Input three numbers and display the largest / smallest number.

#1 Ed-Tech Platform

for Bengali Students

• Generate the following patterns using nested loops:

Pattern-1	Pattern-2	Pattern-3
*	12345	А
**	1234	AB
***	123	ABC
***	12	ABCD
****	1	ABCDE

Write a program to input the value of x and n and print the sum of the following series:
> 1 + x + x² + x³ + x⁴ + … xⁿ

>
$$1 - x + x^2 - x^3 + x^4 - \dots x^n$$

> $x + \frac{x^2}{2} + \frac{x^3}{3} + \frac{x^4}{4} + \dots \frac{x^n}{n}$
> $x + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \dots \frac{x^n}{n!}$

- Determine whether a number is a perfect number, an Armstrong number or a palindrome.
- Input a number and check if the number is a prime or composite number.
- Display the terms of a Fibonacci series.
- Compute the greatest common divisor and least common multiple of two integers.
- Count and display the number of vowels, consonants, uppercase, lowercase characters in string.
- Input a string and determine whether it is a palindrome or not; convert the case of characters in a string.

নোটস, সাজেশন, মক টেস্ট এবং স্কলারশিপ আপডেট - EduTips অ্যাপ ডাউনলোড করুন!





#1 Ed-Tech Platform for Bengali Students

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- Find the largest/smallest number in a list/tuple
- Input a list of numbers and swap elements at the even location with the elements at the odd location.
- Input a list/tuple of elements, search for a given element in the list/tuple.
- Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have marks above 75.
- Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).

Database Management System

- Create a student table and insert data. Implement the following SQL commands on the student table:
- o ALTER table to add new attributes / modify data type / drop attribute o UPDATE table to modify data
- o ORDER By to display data in ascending / descending order o DELETE to remove tuple(s)

o GROUP BY and find the min, max, sum, count and average.

o LIKE, DISTINCT, NOT IN, IN, JOIN, CARTISIAN PRODUCT SET DIFFERENCE, UNION, INTERSECTION etc.



