

REGN NO.:								LEVEL:	
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**Time Allotted: 03 Hours**

**Max. Marks: 100**

**(80 Marks for Practical Exercise + 20 Marks for Viva-voce)**

1. Write your Registration Number and Level in the space provided on the top.
2. All the three questions are compulsory. In case of Question No. 3, the candidate must attempt the question based on the subject as opted by him/her in theory examination.
3. **The 'Question Paper-cum-Worksheet' can be used for writing algorithms/flowcharts and documentation of program and the output results with relevant headings etc.**
4. The maximum marks allotted for each question is given in the parentheses.
5. **Candidate must return the 'Question Paper-cum-Worksheet' to the examiner before leaving the exam hall.**
6. All the questions should be solved on the desktop PC and demonstrated to the Examiner and Observer.
7. Wherever values/data have not been given in the Questions, the candidate can assume the data.

**TO BE FILLED BY THE EXAMINER**

The Identity of the candidate has been verified as per the Admit card / Attendance Sheet. The candidate has also filled all the relevant columns correctly.

Name of the Examiner

Signature

Q.No	Marks obtained		Total
	Examiner (40 marks)	Observer (40 marks)	
1			
2			
3			
Viva Marks (20 Marks)			
Over all Total (Out of 100)			

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**O LEVEL (O-PR) – BATCH: S2**

1. Create a table in MS-Excel as shown below:

Roll No.	Name	Marks in English	Marks in Maths	Total Marks
1.	Rahul	85	95	
2.	Ronit	65	50	
3.	Amit	72	80	
4.	Rupesh	40	60	
5.	Shivika	35	70	
6.	Garima	87	91	

Do the following:

- In the total marks column, entries should be calculated using formulas and it is the sum of marks in physics and marks in chemistry.
- Insert a new row at the end of the table and also find grand total using formula.
- Sort the table based on total marks.
- All columns should be center aligned.
- Heading should be in bold and underlined

**OR**

Draw the flowchart using Libre Office Draw application for finding the mean and median of a set of values given, for example. 13, 12, 11, 9, 18, 15, 10.

**(25)**

2. Create a page with two frames using HTML:

- The left frame of page contains the list of names and images of the Indian national leaders.
- On the left frame when u click on the image, the details will be shown on the right fame.

**OR**

Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference and quotient

3. Write a C function that takes an integer value and returns the number with its digits reversed.

**OR**

Write a program in 'C#' that counts the number of occurrences of a particular character in a line of text. Print the character and its number of occurrences.

**OR**

Create an animated graphic symbol eg. an animated rollover button. Add a movie clip to be played on the button surface. Also add the timeline to show animated effects.

**(30)**

**OR**

**(attempt both parts)**

- Write a Python program to print the sum of series  $1^3 + 2^3 + 3^3 + 4^3 + \dots + n^3$  till n-th term. N is the value given by the user.

**And**

- To interface Push button/Digital Sensor (IR/LDR) with Arduino/Raspberry Pi and write a program to turn ON LED when push button is pressed or at sensor detection.

**(15+15)**