

MOUNT CARMEL PU COLLEGE

DEPARTMENT OF COMPUTER SCIENCE

I PU MID-TERM COMPUTER SCIENCE PRACTICAL EXAMINATION OCTOBER – 2026

DATE/DAY	CLASS	BATCH NO.	TIME	ROLL NO.
19/10/2026 Monday	I EBAC	18	1:10 – 2:50	26P1501 – 26P1540
21/10/2026 Wednesday	I EBAC	19	7:55 – 9:40	26P1541 – 26P1580
22/10/2026 Thursday	I PCMC	16	7:55 – 9:40	26P0501 – 26P0540
23/10/2026 Friday TUE TT	I PCMC	17	2:00 – 3:40	26P0541 – 26P0580

Instructions for Mid-Term Practical Examination:

1. Kindly report to the lab on time.
2. Carry your RECORD, ID CARD and required stationery.
3. Pencil Pouches, Mobile Phone, Smart Watches and Scientific calculators are not allowed.
4. ATTENDANCE IS COMPULSORY.
5. Any form of Malpractice will not be entertained.


HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE
MOUNT CARMEL P.U. COLLEGE
58, PALACE ROAD,
BANGALORE - 560 052


Principal
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58, Palace Road,
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PYTHON PART – A

1. Write a program to swap two numbers using a third variable.
2. Write a program to enter two integers and perform all arithmetic operations on them.
3. Write a Python program to accept length and width of a rectangle and compute its perimeter and area.
4. Write a Python program to calculate the amount payable if money has been lent on simple interest.
Principal or money lent = P,
Rate of interest = R% per annum and Time = T years.
5. Write a Python program to find largest among three numbers.
6. Write a program that takes the name and age of the user as input and displays a message whether the user is eligible to apply for a driving license or not. (The eligible age is 18 years).
7. Write a program that prints minimum and maximum of five numbers entered by the user.
8. Write a program to find the grade of a student when grades are allocated as given in the table below.
Percentage of Marks Grade Above 90% A 80% to 90% B 70% to 80% C 60% to 70% D Below 60% E Percentage of the marks obtained by the student is input to the program.
9. Write a function to print the table of a given number. The number has to be entered by the user.
10. Write a program to find the sum of digits of an integer number, input by the user.
11. Write a program to check whether an input number is a palindrome or not.
12. Write a program to print the following patterns:
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1

PYTHON PART – B

1. Write a program that uses a user defined function that accepts name and gender (as M for Male, F for Female) and prefixes Mr. /Ms. based on the gender.
2. Write a program that has a user defined function to accept the coefficients of a quadratic equation in variables and calculates its discriminant. For example: if the coefficients are stored in the variables a, b, c then calculate discriminant as $b^2 - 4ac$. Write the appropriate condition to check discriminant on positive, zero and negative and output appropriate result.
3. Write a program that has a user defined function to accept 2 numbers as parameters, if number 1 is less than number 2 then numbers are swapped and returned, i.e., number 2 is returned in place of number 1 and number 1 is reformed in place of number 2, otherwise the same order is returned.
4. Write a program to input line(s) of text from the user until enter is pressed. Count the total number of characters in the text (including white spaces), total number of alphabets, total number of digits, total number of special symbols and total number of words in the given text. (Assume that each word is separated by one space).

DISTRIBUTION OF MARKS (TOTAL MARKS – 30)

- Writing one program from PART - A (PYTHON) and one program from PART - B (PYTHON) - 12 marks (each program 6 marks)
- Execution of any one program (examiner choice) - 6 marks
- Formatting the output - 2 marks
- Attendance - 5 marks
- Record - 5 marks


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