

AH -1547 CV-19
M.A./M.Sc. (Final)
Term End Examination, 2019-20
MATHEMATICS
Paper - III

Programming in C (With ANSI features)

Time:- Three Hours]

[Maximum Marks: 100

[Minimum Pass Mark : 36]

Note: Answer any five question. All questions carry equal marks.

1. Write a simple program to demonstrate the program structure at C Programming language.
2. Evaluate the following expression using C Programming language concept.
 - (a) $5-10\%3*2-1+3.0*0.2$
 - (b) $10*2/3+1.5*2-1$
 - (c) $10--3*2+4/3.1+5$
 - (d) $20*2/2/4*(2-4+5)$
3. Write a program to print the following putter using for loop (take the value of n from keyboard)

```

n
n, n-1
n, n-1, n-2
n, n-1, n-2, n-3
,
,
:
:
:
n, n-1, n-2, n-3, ... 3, 2, 1
Ex. if n is 5
5
5,4
5,4,3
5,4,3,2
5,4,3,2,1
  
```

4. Write a simple program to demonstrate the use of break, continue and go to statement in a simple program?

5. Evaluate the following expression.

- | | |
|------------------------|-------------------------|
| (a) $10 < < 3$ | (b) $-20 < < 3 + 2$ |
| (c) $-10 \wedge 3 * 1$ | (d) $-40 > > 2 \& \& 5$ |
| (d) $-10 \& + 1$ | |

6. Evaluate the following expressions

- | | |
|--------------------------------------------|-----------------------------------|
| (i) $10 * \text{size of ('A')} + 5$ | (ii) $10 * \text{size of (10.5)}$ |
| (iii) $10 - 5 * 2 / 3 \& \& 5 \parallel 6$ | (iv) $10 > 12 \& \& - 5 + 1$ |
| (v) $1085 + 1 \& \& 3 > = 4$ | |

7. Write a simple program to read n number form the keyboard and allocate memory to read the numbers dynamically and calculate the average of the given number after that reseated the allocated memory.

8. Write a program to calculate the row/column wise sum of the two dimentional array of m×n size take the value of m and through keyboard and store the number in array and display the result on console screen.

for example:

	Array of 2×3			sum
	3	5	8	→16 30
	5	10	15	
	↓	↓	↓	
sum→	8	15	23	

9. write a simple program o store the string (take from the keyboard) in the file in text format.
10. write a program to demonstrate the use of multidimensional macro in which senerio we should use macro instead of function.