

B.SC. (I. T.) SEM. - I (2011 COURSE) : WINTER - 2017
SUBJECT: INTRODUCTION TO PROGRAMMING &
LOGIC USING C

Day: **Friday**
Date: **15/12/2017**

W-2017-0861

Time: **10.00 AM TO 12.00 NOON**
Max Marks: 40

N.B:

- 1) Attempt **ANY FIVE** full questions.
- 2) Figures to the right indicate **FULL** marks.
- 3) Make assumptions **WHEREVER** necessary, clearly stating the assumption.
- 4) Draw neat diagram **WHEREVER** necessary.

Q.1 Write a program to print reverse a number (ex.1234, then it should print 4321). **(08)**

Q.2 Write a program to accept a number and print whether the number is Armstrong number or not. (Ex. Armstrong number: - $371=3^3+7^3+1^3= 371$.) **(08)**

Q.3 Write a C program to generate following pattern (using for loop). **(08)**

```
4
4 3
4 3 2
4 3 2 1
```

Q.4 Answer (Any **TWO**) **(08)**

- a) Explain structures with syntax and give suitable example.
- b) What is data type? Explain the available data types in C.
- c) Discuss different parameter passing techniques.

Q.5 What is an array? Explain two dimensional array with a suitable example. **(08)**

Q.6 What is the function? Explain function call by value and call by reference giving suitable example. **(08)**

Q.7 a) Explain strcmp() & getch() in C with suitable example. **(04)**
b) Explain the concept of pointers in C with suitable example. **(04)**

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