

**B.SC. (A & G) SEM. – I (OLD COURSE) (ANIMATION &
GAMING) : WINTER - 2017**

SUBJECT: PROGRAMMING TECHNIQUES IN C

Day: **Friday**

Time: **10.00 AM TO 12.00 NOON**

Date: **15/12/2017**

W-2017-0896

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.
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- Q.1** a) Compare while & Do- while loops. (08)
b) What is flow chart?
c) What is operator? List all the operators used in C.
d) Explain the use of 'break' statement in loops.

- Q.2** Explain function prototype? What must the prototype contain? Is it mandatory to have function prototype in C programming while using that function. (08)

- Q.3** What is an array? Explain different types of array and how array can be initialized. Example with an example. (08)

- Q.4** Write a C program to generate following pattern. (08)
- ```
1 2 3 4 3 2 1
 1 2 3 2 1
 1 2 1
 1
```

- Q.5** Write a program to print first 15 nos of Fibonacci series. (08)

- Q.6** Write a program to accept 3x3 matrix and multiply two matrix. Result will be stored in third matrix. Display the third resultant matrix. (08)

- Q.7** What are the different operators that can be performed on a structure? Give example of each. (08)

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