

TSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
**BSc DEGREE EXAMINATION DECEMBER 2017**  
(Fifth Semester)

Branch – MATHEMATICS

**ELECTIVE-I - PROGRAMMING IN C**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks (10 x 2 = 20)

- 1 What is a string constant?
- 2 List out any four data types in C.
- 3 What is integer arithmetic?
- 4 Write down the logical operators of C.
- 5 What is the use of getchar ( ) in C?
- 6 List out any four commonly used scanf format codes.
- 7 What are jump statements?
- 8 Write the syntax of while statement.
- 9 What is a multifunction program?
- 10 List out any two categories of functions.

**SECTION - B (25 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Explain in detail about the C character set.  
OR  
b Discuss floating point constants in C.
- 12 a Write a C program using bitwise operators.  
OR  
b Elaborate the special operator of C.
- 13 a Write a C program using if statement.  
OR  
b Write about the goto statement.
- 14 a Write a C program using Do statement.  
OR  
b Describe multi-dimensional arrays in C.
- 15 a Explain the need for user defined functions.  
OR  
b How is a file opened in C? Explain.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Briefly explain defining symbolic constants in C.
- 17 Give a detailed note on the evaluation of expressions in C.
- 18 Discuss the switch statement with example.
- 19 Elaborate the statement with an example.
- 20 Explain about input/output operations of file.

Z-Z-Z

END