

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION MAY 2017  
' (Fourth Semester)

Branch - MATHEMATICS WITH COMPUTER APPLICATIONS

C PROGRAMMING

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

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

- 1 Define keywords.
- 2 List the rules for forming valid identifier in C;
- 3 Write the syntax of getchar().
- 4 Give some standard math functions.
- 5 \* List the types of if-statement.
- 6 Write syntax of goto statement.
- 7 What is an array? \* ' c
- 8 Define function.
- 9 Define union.
- 10 What is pointer?

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Write a short notes on importance of C. - ' ■ \
 

OR

 b Explain the various data types supported by C.
- 12 a Describe explicit conversion in detail. \
 

OR

 b Write a note on formatted input and formatted output.
- 13 a Write a C program to find the biggest of three numbers using nested if-else statement. "
 

OR

 b Write a C program to print a vowel in words using switch statement.
- 14 a Write a short notes on Calling a function. .
 

OR

 b Explain the function with no arguments and no return values with suitable example.
- 15 a Discuss about arrays of structures with an example.
 

OR

 • b Explain (a) Opening a file (b) Closing a file.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Briefly explain the various types of constants in C with examples.
- 17 Explain different types of operators in C with suitable example.
- 18 • Explain the various looping statement in C with suitable example.
- 19 . Write a note on multidimensional arrays with suitable example.
- 20 Explain in detail about input/output operations on file.