B.SC. (I. T.) SEM. - I (2011 COURSE) : SUMMER - 2018
SUBJECT : INTRODUCTION TO PROGRAMMING AND LOGIC USING C

Day : **Wednesday** | **S-2018-0968** | Time : **02.30 pm to 04.30 pm**
Date : **23/05/2018** | Max. Marks : **40**

N. B. :
1) Attempt **Any FIVE** Full questions.
2) Figures to the right indicate **FULL** marks.

Q.1 a) Define Algorithm. Explain using an example of factorial calculation. **(04)**

b) Compare while and do while loops, using code snippet examples. **(04)**

Q.2 a) Describe the advantages of modularizing a C program using functions? **(04)**

b) Differentiate between complier and interpreter function? **(04)**

Q.3 Differentiate between call-by-value and call-by-reference methods? Describe code snippet example for each. **(08)**

Q.4 a) Explain strcat( ) and strcpy( ) functions using code snippet examples. **(04)**

b) Describe an example code snippet, demonstrating the use of nested if-else statements? **(04)**

Q.5 a) Differentiate between function prototype and function definition, using snippet examples. **(04)**

b) Describe the various arithmetic operators used in C. **(04)**

Q.6 Explain the following using code snippet examples : **(08)**

a) fseek
b) gets or getch
c) calloc
d) scan for fopen

Q.7 a) Explain the importance of structures in C. Differentiate between structure and union using examples? **(04)**

b) Describe using code examples, how we can access members of a structure. **(04)**

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