



Register Number:
Date:
20-8-18

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27
B.Sc – I SEMESTER
MID SEMESTER TEST: AUGUST-2018
CS118-Digital computer fundamentals and Programming in C

Time- 1 hour

Max Marks-30

Answer any five of the following questions

5*6=30

1. Explain in detail about the features of The second and third generation computers
2. Subtract 28 from 14 using 1's complement method and 2's complement method.
3. Solve the following 1) $1AB4_{(16)} = \dots\dots\dots(10)$

2) $129.83_{(10)} = \dots\dots\dots(8)$

3) Binary division: $10001100 / 10$

4. Explain the different data types in C programming with example
5. Explain any five operators with examples.
6. Write a program to calculate Julian date.
7. Write a program to print the pattern

a) *
* *
* * *

b) 1
3 3
5 5 5