Roll No.: _____

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -1 EXAMINATION- September 2018
B.Tech I Semester

COURSE CODE: 18B11CI111   MAX. MARKS: 15
COURSE NAME: Programming for Problem solving
COURSE CREDITS: 3   MAX. TIME: 1 Hrs

Note: All questions are compulsory.

Que.1: *[01 Marks; CO1]* Write the full form of SRAM and DRAM? What are the key differences between these two? Explain.

Que.2: *[01 Marks; CO1]* What do you understand by register? Explain the purpose of MAR and MDR.

Que.3: *[02 Marks; CO1]* Draw the control unit state diagram. Also explain it in detail.

Que.4: *[02 Marks; CO1]* What is clock? How it is used in control unit? Explain.

Que.5: *[01 Marks; CO1]* What do you understand by operator precedence? Why it is important? Explain.

Que.6: *[01 Marks; CO1]* What do you understand by Associativity? Why it is important? Explain.

Que.7: *[02 Marks; CO2]* Explain conditional operator? Write a conditional expression and explain it.

Que.8: *[01 Marks; CO2]* What are the key differences between algorithm and psudocode? Give a sample example.

Que.9: *[02 Marks; CO2]* Given a 2-D polygon with N sides and N vertices. Write an algorithm to find the smallest rectangular box required to cover the polygon completely.

Que.10: *[02 Marks; CO2]* Given a computer to store the time in 24 hours format. You are supposed to draw a flow chart to print the time in AM/PM format.