Dr. Yugarl

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

(T-1 Examination Feb-2019) B.Tech. 6TH Semester

COURSE CODE: 10B11CI612

MAX. MARKS: 15

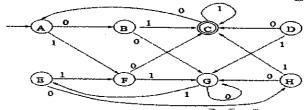
COURSE NAME: COMPILER DESGIN

COURSE CREDITS: 4

MAX. TIME: 1 Hrs

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

- Q.1 [CO 1] What are the different phases of compiler? Explain with the help of diagram.
- Q.2 [CO 1] Find the equivalent minimized automata to corresponding finite automata. (3)



Q.3 [CO2] what is lexeme, token and pattern? Evaluate the tokens from the given code. (3) Float limited Square(x) float x

/* returns x-square, but never more than 100*/
Return(x<=10.0||x>=10.0)?100:x*x;

Q.4 [CO 3] Prove that the following grammar is LL(1) or not using predictive parsing table. (3)

T→ LB|C array
L→long|ε
C→B| ε
B→real|integer

Q.5 [CQ 3] Find the First() and Follow() sets for following grammar. S-alablabclabcde

(3)

(3)