

Total No. of Questions :6]

SEAT No. :

P297

Oct./BE/Insem. - 615

[Total No. of Pages : 1

**B.E. (Information Technology)
COMPILER CONSTRUCTION**

(2015 Pattern) (Semester - I) (414457 D) (Elective - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Neat diagrams must be drawn and support your answer with and examples wherever necessary.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Assume suitable data if necessary.*

Q1) a) Why left recursion to be eliminated? Explain with example? **[5]**

b) State the reasons why LR parsers are mostly preferred? **[5]**

OR

Q2) a) What do you mean by DAG? Construct DAG for $a+a+(a+a+a+(a+a+a+a))$. **[5]**

b) Explain triple and indirect triples. **[5]**

Q3) a) What are canonical trees? Explain. **[5]**

b) List and outline algorithms for instruction scheduling. **[5]**

OR

Q4) a) Explain Baker's Algorithm. What do you mean by flip? **[5]**

b) Describe Generational Collection method. **[5]**

Q5) a) Explain how Global graph coloring mechanism avoids problems in multiple Inheritance? **[5]**

b) What do you mean by Inline expansion? Explain. **[5]**

OR

Q6) a) What are classless languages? Explain. **[5]**

b) What do you mean by tail recursion? Explain. **[5]**

