

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2018
(Fifth Semester)

Branch --**SOFTWARE SYSTEMS**
(Five year integrated)

PRINCIPLES OF COMPLIER DESIGN

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 x 6 = 30)

- 1 a Describe about input buffering in detail.
OR
b Explain in detail the cousins of the compiler.
- 2 a Write short notes on context free grammars.
OR
b Compare SLR, LALR and LR parses.
- 3 a How assignment statements are translated into three address code?
OR
b Write short notes on back patching.
- 4 a Describe about target machine in detail.
OR
b Discuss about the peephole optimization.
- 5 a Write in detail about the storage organization.
OR
b Write short notes on parameter passing techniques.

SECTION -B (45 Marks)

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 With a neat diagram, explain the various phases of a compiler in detail.
- 7 Write in detail about top down parsing method.
- 8 What are the methods of translating Boolean expressions? Explain in detail.
- 9 Explain in detail about a simple code generator.
- 10 Describe about the principal source of optimization in detail.

Z-Z-Z

END