MCA 5th Semester Mid Term Examination- 2022

Name of Subject: : COMPILER DESIGN
Paper Code: PCA05C13

Full Marks: 20 Time: 1 Hours

[The figures in the margin indicate full marks for the questions]

SECTION -A (4x1=4)

1. Answer the Followings:

a) Define Boot strapping.
b) State some software tools that manipulate source program?
c) Define regular expression. Give example.
d)How you formally define a deterministic finite automata?

SECTION -B

1.
a)Differentiate between Static and Dynamic Storage allocation Strategies. (4×2=8)
b) Define Ambiguous grammar? Explain it with an Example.
c) Design a FA that accepts strings containg exactly I over alphabet (0.1).
d)Write the regular expression for the set of strings of 0's and I's whosw tenth sumbol form the right end is 1.

SECTION -C (2x4=8)

1. a) Construct the € - NFA for the regular expression 1*(0+ 1) (0+1)*1.
b) Eliminate left recursion in the following grammar
A -› ABd | Aa | a
B- Be | b