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Registration No. :								
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BRANCH : CSE

QUESTION CODE: E 311

Full Marks - 70

Time: 3 Hours

Answer Question No. 1 which is compulsory and any **five** from the rest.

The figures in the right-hand margin indicate marks.

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Answer the following questions :

2×10

- (a) Define the terms lexeme and pattern with an example?
- (b) What are the functions of analysis phase and synthesis phase of compiler?
- (c) Write any two error recovery actions in case of lexical errors?
- (d) Draw a NFA for a*|b*.
- (e) What do you mean by handle pruning? Give an example?
- (f) Define an attribute? Give the types of an attribute?
- (g) Name any two kinds of Intermediate code representation?
- (h) Name the data structures used for implementing symbol table?
- (i) What are the steps involved in partitioning a Sequence of three address statements into basic blocks?
- (j) Define dead code elimination with an example?
- (a) What are the various phases of a compiler? Write down the output for the following expression after each phase a:=b*c-d.
 - (b) Explain the functions of the Lexical Analyzer along with its implementation?

5 hat may occur 5 10
hat may occur 5
5
10
flow of control 5
gnment state- 5
following three
5
5
-
5
5
5 × 2