COMPILER DESIGN

1.

$S \rightarrow aA \mid *S$
$A \rightarrow +S \mid (S \mid \varepsilon$

Set { +, (} will be in the

(a) First (A)
(b) First (E)
(c) Follow (E)
(d) Follow (A)

2. Which of the following is True?

(a) Handle of a string is a sub string that matches left hand side of production
(b) RR conflicts never occur in LALR(1)
(c) SR conflicts occur in LALR(1)
(d) None of these

3. If attribute can be evaluated in depth-first order then definition is

(a) S – attributed
(b) L – attributed
(c) Both (a) and (b)
(d) None of these

4. $S \rightarrow Sa \mid b$

Which of the following is True?

(a) There will be SR conflict during parsing
(b) There will be RR conflict during Parsing
(c) There will be both conflict
(d) There will be no conflict

5. The equivalent expression for the DAG is

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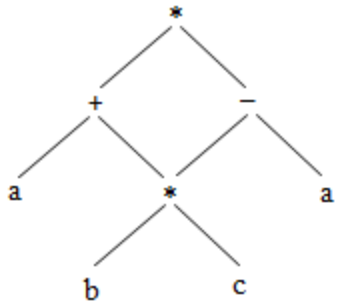

(a) ((a + b) *c) *(b*(c – a))
(b) a + (b*c – a)
(c) (a + (b*c))*((b*c) – a)
(d) a*(a + b * c) – a

6.

P → PαQ | Q
Q → QβR | R
R → num

If 2α3α4β1α2β1 is evaluated to 18, then which of the following is the correct value for α and β?

(a) +, *
(b) +, –
(c) *, –
(d) –, +

7. The above transition rule used to evaluate 7α4β2α2β1. The result will be

(a) 10
(b) 14
(c) 17
(d) 20

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