**Question No :01**

bexpr 🡪 bexpr or bterm | bterm

bterm 🡪 bterm and bfactor | bfactor

bfactor 🡪 not bfactor | (bexpr) | true | false

**Removing Left Recursion:**

Bexpr 🡪 bterm A’

A’ 🡪 or bterm | E

bterm 🡪 bfactor B’

B’ 🡪 and bfactor B’ | E

bfactor 🡪 not bfactor | (bexp) |

| true | false

**Finding First & Follow:**

**First:**

Bexpr = { not , ( , true , false }

A’ = or , E

Bterm = { not ,( , true , false }

B’ = [ and , E ]

bfactor = { not ; ( true , false )

**Follow:**

bex, pr 🡪 { $ , ) }

A’ 🡪 { $ , ‘ ) }

bterm 🡪 { or , ) , $ }

B’ 🡪 { or , ) , $ }

bfactor 🡪 { and , or , $ , ) }

**Parsing Table:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **or** | **and** | **(** | **)** | **true** | **false** | **not** | **$** |
| bexpr |  |  | 1 |  | 1 | 1 | 1 |  |
| bterm |  |  | 4 |  | 4 | 4 | 4 |  |
| bfactor |  |  | 8 |  | 9 | 10 | 7 |  |
| A’ | 2 |  |  | 3 |  |  |  | 3 |
| B’ | 6 | 5 |  | 6 |  |  |  | 6 |