A. Primary objective:

To study the effects of different treatments on neurophysiological (cognitive) and neuropsychological (behavioral) changes in STZ induced young diabetic rats having severe hyperglycemia (FBS $\geq$ 200 mg/dl);

1. Treatment with alcoholic extract of roots of *Salacia reticulata* W. (SR)
2. Treatment with alcoholic extract of roots of *Clitoria ternatea* L. (CL)
3. Treatment with combined alcoholic extract of roots of *Salacia reticulata* W. and *Clitoria ternatea* L. from day one of onset of diabetes (SR+CT-01)
4. Rearing in enriched environment (EE)
5. Treatment with combined alcoholic extract of roots of *Salacia reticulata* W. and *Clitoria ternatea* L. and reared in enriched environment (SR+CT+EE)
6. Treatment with conventional insulin therapy (IN)
7. Treatment with combined alcoholic extract of roots of *Salacia reticulata* W. and *Clitoria ternatea* L. 20 days after the onset of diabetes (SR+CT-20)

B. Secondary objective:

To study the effects of duration of diabetes on neurophysiological and neuropsychological changes in STZ induced young diabetic rats having severe hyperglycemia (FBS $\geq$ 200 mg/dl);

1. Hyperglycemia of 10 days duration
2. Hyperglycemia of 20 days duration