Functions

1. Ackley function, 3 variables Minima: f(x) = 0, x = (0,0,0)Obtained : f(x) = 12.172751856335983, x=(20, 2, -16)Details: Population size = 150Search Region: (-64,64), (-64,64), (-64,64), Integers No of iterations:10000 Mutation Rate: 2% 2. Ackley function, 2 variables Minima: f(x) = 0, x = (0,0)Obtained: f(x) = 6.91503648286, x=(0.3)Details: Population size = 150Search Region: (-32,32), (-32,32), Integers No of iterations:1000 Mutation Rate: 2% 3. Ackley function, 1 variable Minima: f(x) = 0, x = (0)Obtained: f(x) = 4.69494620141, x = (-1)Details: Population size = 150Search Region: (-32,32), Integers No of iterations:1000 Mutation Rate: 2% 4. Bukin Function N. 6, 2 variable Minima: f(x) = 0, x = (-10,1)Obtained: f(x) = 0, x = (-10,1)Details: Population size = 50Search Region: (-15,-5),(-3,3), Integers No of iterations:1000 Mutation Rate: 2% 5. Cross in tray function, 2 variable(This function has multiple global minima) Minima: f(x) = -2.06261, x = (1.3491, -1.3491)Obtained: f(x) = -2.03433051263634, x=(1,1)Details: Population size = 150Search Region: (-16,16),(-16,16), Integers No of iterations:1000 Mutation Rate: 2% 6.Drop wave function Minima: f(x) = -1, x = (0,0)Obtained: f(x) = -0.7375415834929969 x = (1,0)Details: Population size = 150Search Region: (-8,8),(-8,8), Integers

> No of iterations:10000 Mutation Rate: 2%