

### **4.3 The effect of NeemAzal-T/S and Malation57 combination against larvae and adults of *Tribolium castaneum*.**

As seen in table.3 and illustrated in fig.6 and fig.7. The result of first day mortality of larvae show that the combination of malathion57 and NeemAzal and malathion57 recommended dose were significantly higher than NeemAzal which was not significantly different from the control. On the other hand, the malathion57 recommended dose caused a significantly higher mortality among adults than the combination of malathion57 and NeemAzal and also than NeemAzal recommended dose. On the second day the malathion57 recommended dose caused a significantly higher mortality percentage among adults and larvae than both combination of NeemAzal and malathion57 and NeemAzal recommended dose.

On the third day malathion57 resulted in 100% kill of adults as opposed to 93% caused by the combination and they were not significantly different. However, malathion57 recommended dose caused a significantly higher mortality among the larvae (97%) than the combination (77%) . By the last day of the experiment (the fourth day) all adults treated by malathion57 recommended dose and the combination were dead whereas NeemAzal recommended dose killed 0% of the adults and 13% of the larvae.