

## CHAPTER V

### CONCLUSION

1. Considering the screening of 100 RAPD primers, only 5 primers (OPA-18, OPC-02, OPP-03, UBC-133 and UBC-135) can be amplified RAPD-PCR product with polymorphism in all gallopheasants and partridge.
2. In interspecies was shown genetic distance ranging from 0.2297-0.4519 based on average genetic distance can be described the Great Argus, Crested Wood Partridge, Siamese Fireback and Red Junglefowl have closely genetic relationship while the Green Peafowl shown high genetic distance and separated out from other species.
3. In intraspecies could be found candidate population specific bands for using to characterize different population. In Great Argus when was used OPA-18, OPC-02 and OPP-03 primer can be separated Great Argus from Hala Bala, Hala Bala and Pratabchang, and Pratabchang out from others, respectively. There is only UBC-133 primer can be separated population of Green Peafowl from Ping watershed out the others. For Crested Wood Partridge were found OPP-03 and UBC-135 primer can be separated population from Pratabchang and Khok Mai Rua out from others. In the future can choosing this primer for characterize some gallopheasants and partridge above and can check the origin of them from the wild or the captive.
4. Genetic differences analysis using pairwise exact test both interspecies and intraspecies shown non significant genetic differences ( $P \leq 0.05$ ).