

## CHAPTER V

### CONCLUSION AND RECOMMENDATION

#### 5.1. Conclusion

Based on the objectives, results and discussion of development and implementing e-learning media and cooperative learning model on digestive system topic for grade XI IA stated previously then the conclusions obtained were:

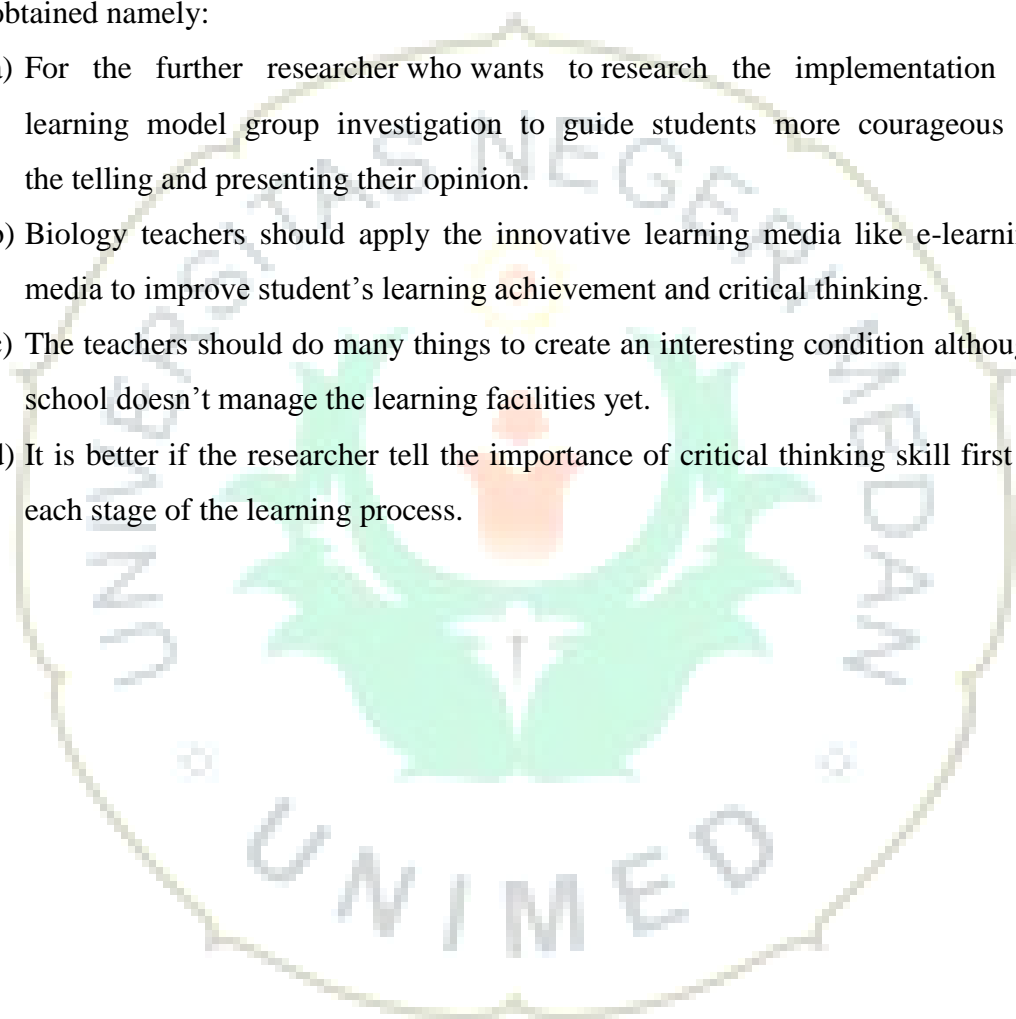
- a) The percentage of media assessment achieved 66% for screen design effectiveness; 80% for media operation; consistency, format, organizing and usage were achieved 80%. The percentage of content assessment achieved was achieved 82.5 % belong to feasible category. Small scale validation involved ten teachers and ten students got the average percentage was 92.13% for media and 95% for content assessment. Large scale validation involved 26 students of SMAN 1 Berastagi showed 93.86% for indicator quality of content and purpose of learning materials and 93.91% for quality of technique in the usage of e-learning media belong to very decent category and suitable to be implemented during teaching and learning.
- b) The use of discussion method assisted e-learning media has a positive effect on student's learning achievement. In the control class, the average of post test value was 82.84 and the post test in the experimental class was 87.41. It was proven from the  $t_{obs} = 4.015$  with  $t_{table} = 1.67$ .
- c) The use of discussion method assisted e-learning media had also a positive effect on student's critical thinking skill. The average value of post test in control class was 82.06 and in the experimental class were 86.06. It was proven from the  $t_{obs} = 2.173$  with  $t_{table} = 1.67$ .
- d) The implementation of cooperative learning model type group investigation assisted e-learning media during learning process in the class has able to stimulate the student's critical thinking attitude.
- e) Cooperative learning model type GI considered the priority of students' thinking exchange that consists of several stage namely grouping, planning,

investigation, organizing, presenting, evaluating. In e-learning class, teacher teaches the subject matter in the class but by using e-learning media assisted like as blog and quiz online.

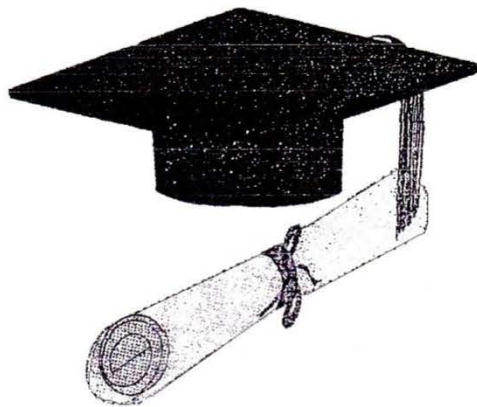
## 5.2. Recommendation

Based on the result and conclusion above, the recommendation obtained namely:

- a) For the further researcher who wants to research the implementation of learning model group investigation to guide students more courageous in the telling and presenting their opinion.
- b) Biology teachers should apply the innovative learning media like e-learning media to improve student's learning achievement and critical thinking.
- c) The teachers should do many things to create an interesting condition although school doesn't manage the learning facilities yet.
- d) It is better if the researcher tell the importance of critical thinking skill first at each stage of the learning process.



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