5 What is wildlife and what are their values? Briefly mention about the wildlife protection scenario in India. 7+7=14

Or

6. Give an account of inbreeding depression 14

7. What are the various habitats of parasites in vertebrate hosts? Mention the importance of nutritional levels in host environment on the life cycle of parasites with suitable example. 7+7=14

Or

8. What are vectors? Discuss the role of mosquitoes and houseflies as vectors of human diseases with suitable examples. 2+12=14

9. Describe the life cycle and pathogenesis of *Plasmodium falciparum.* 10+4=14

Or

10. Write short notes on the following: 7x2=14

a) Life cycle of hook worm

b) Life cycle of *Echinococcus granulous*

★★★

PG (CBCS) ODD SEMESTER EXAMINATION, 2022

LIFE SCIENCE & BIOINFORMATICS

3rd Semester

COURSE NO. LISBCC – 302(Z)

(Applied Biology)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer all questions

1. What are vaccines? Write a detailed account of different forms of vaccines. 2+12=14

Or

2. Write short notes on the following: 7x2=14

a) Monoclonal antibodies

b) DNA vaccines

3. Discuss briefly about biosensors and their applications. 8+6=14

Or

4. What is toxicological risk? Briefly enumerate the various means of assessing risks. 2+12=14