

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**SEMESTER EXAMINATIONS****NOVEMBER - 2018****15CBT5B****ANIMAL BIOTECHNOLOGY****Time : 3 Hours****Max. Marks : 75****SECTION – A (10 x 2 = 20)****Answer ALL the questions.**

1. Define continuous cell line.
2. Role of serum in cell culture.
3. What is the purpose of cryopreservation in IVF?
4. Give an account on endangered species.
5. Explain about Live vaccines.
6. Define HIV.
7. Dye exclusion method.
8. List the applications of probiotics.
9. Define Knockout mice.
10. Human genetic engineering.

SECTION – B (5 x 5 = 25)**Answer any FIVE of the following questions.**

11. Write an account on the various sources of contamination in cell culture and discuss the methods to eradicate them.
12. Write a note on the various types of culture media.
13. What are the strategies employed in artificial reproductive technology?
14. Explain the use of animals to generate therapeutic proteins.
15. Discuss the cause and symptoms of trypanosomiasis.
16. Write an account on manipulation of rumen microbial digestive system.
17. Discuss the limitations and ethical considerations of animal use in research of human diseases.
18. Explain the non - viral methods of gene transfer employed in gene therapy.

SECTION – C (3 x 10 = 30)**Answer ALL the questions.**

19. (a) Describe the various approaches to large scale culture of cell lines.
(Or)
(b) Explain the causes of human infertility and elaborate on the technique of IVF.
20. (a) What is a vaccine? Explain recombinant and sub - unit vaccines.
(Or)
(b) Elucidate the applications of animal cell culture for production of probiotics.
21. (a) Explain the methods of gene therapy, its applications and challenges faced in its implementation.
(Or)
(b) Elucidate the production of human growth hormone using in Vitro cell systems.