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D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1
SEMESTER EXAMINATIONS
APRIL - 2016
ANIMAL BIOTECHNOLOGY

CBT6B

Time : 3 Hrs**Max.Marks : 75****SECTION-A (10 x 2 =20)****Answer ALL the questions.**

Write notes for the following.

1. Ross Harrison.
2. Finite cell line.
3. Balanced salt solution.
4. Contact inhibition.
5. Trypsinisation.
6. Embryonic stem cells.
7. Embryo sexing.
8. Dolly.
9. Vector.
10. DNA vaccine.

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

11. List out the applications of animal cell culture.
12. What are the techniques used for primary cell culture? Explain.
13. Write about the characteristics of cultured cells.
14. Discuss the advantages and disadvantages of serum containing media.
15. Explain about stem cell cultures and its applications.
16. Write short notes on embryo splitting.
17. What are the applications of transgenic sheep? Explain.
18. Discuss about the production of viral vaccine in animal cell culture.

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

19. (a) Briefly describe about the equipments and materials needed for animal cell culture.

(Or)

- (b) Give a detailed account on measurement of growth parameters of cultured cells.

20. (a) Explain in detail the methods used for disaggregation of tissues.

(Or)

- (b) Briefly explain about the steps involved in IVF in animals.

21. (a) Explain the production of human therapeutic proteins using transgenic animal as a bioreactor.

(Or)

- (b) Briefly explain about the viral vectors used for gene transfer in animals.