Reg.No : | | | | | | | | | | | |

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE – 1

SEMESTER EXAMINATIONS

APRIL - 2017 **CBT6B**

ANIMAL BIOTECHNOLOGY

Time: 3 Hrs **Max. Marks: 75**

SECTION – A (10 X 2 =20)

Answer ALL the questions.

1. What is the significance of CO_2 incubator in an animal cell culture laboratory?
2. Distinguish between primary and secondary cell line.
3. What is BSS? What is its significance?
4. What is serum?
5. Define typsinizaton.
6. What is ICM?
7. What is IVF?
8. What is lipofection?
9. What is Vector?
10. What are early transcripts and late transcripts?

SECTION – B (5 X 5 =25)

Answer any FIVE of the following questions.

11. Briefly explain about the History of Animal Biotechnology and its application.
12. Explain in detail about materials required for animal cell culture.
13. Write down the principle, methodology and application of trypsinization.
14. Write short notes on DNA vaccines.
15. Briefly explain about pregnancy Diagnosis in animals.
16. Describe in detail about the production of any one vaccine through animal cell culture.
17. Explain in detail about retroviral vector and its advantages.
18. What is serum free medium? Explain its merits and demerits.

SECTION – C (3 X 10 =30)

Answer ALL the questions.

19. a) Explain in detail about the process of sterilization in animal cell culture laboratory.

(Or)

b) Explain in detail about animal cell culture media?

20. a) What is a stem cell? Explain in detail about stem cell culture and its applications.

(Or)

b) Describe in detail about the process of Embryo Transfer.

21. a) Elaborate a note on transgenic animals and their applications.

(Or)

b) What is IVF? What are the strategies involved in IVF and add a note on its applications.

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