

**D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1****SEMESTER EXAMINATIONS****APRIL – 2018****15CBT6B****PHARMACEUTICAL BIOTECHNOLOGY****Time : 3 Hrs****Max. Marks : 75****SECTION-A (10 x 2 = 20)****Answer ALL the questions.**

1. What are drugs?
2. Define Pharmacology.
3. What are Vitamins?
4. List out the pharmaceutical enzymes.
5. Comment on edible vaccines.
6. Define vaccine.
7. What is antisense RNA?
8. Explain the role of insulin in human body.
9. What are glandular products?
10. Define ACTH.

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

11. Write notes on dosage forms and routes of drug administration.
12. Give an account on production of Penicillin.
13. Explain the production of Riboflavin (B<sub>12</sub>).
14. Write notes on blood products.
15. List out the application of thyroxine hormone.
16. What are the methods used in bioassay of drugs?
17. How will you produce human growth hormone through genetic engineering?
18. Write notes on polio vaccines.

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

19. (a) Give an account on mechanism of drug action.

(Or)

(b) What are the applications of immobilized enzymes in drug manufacture?

20. (a) Write the production methodology of

(a) Hepatitis B (5 marks)

(b) DPT. (5 marks)

(Or)

(b) Write an essay on the application of monoclonal antibodies.

21. (a) Describe the production of

(a) Vasopression (5 marks)

(b) Oxytocin. (5 marks)

(Or)

(b) Write short notes on (a) Antisense RNA (5 marks) (b) Edible vaccines (5 marks).

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