

18U619

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Name:

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2021

(CUCBCSS-UG)

(Regular/Supplementary/Improvement)

CC15U ZO6 B14 - BIOTECHNOLOGY, MICROBIOLOGY AND IMMUNOLOGY

(Zoology - Core Course)

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

A. Answer *all* questions. Each question carries 1 mark.

1. What is a single cell protein?
2. Expand FISH.
3. What is a toxoid vaccine?
4. Mention any four normal microflora of man.
5. Give any two important symptoms of Graves Disease.
6. Give any two uses of monoclonal antibodies.
7. What is YAC?
8. Name any two bacterial stains.
9. Give the functions of NK cells.
10. What is lipofection?

(10 × 1 = 10 Marks)

B. Answer any *ten* questions. Each question carries 2 marks.

11. Give a brief note of mycoplasma.
12. What is inoculation?
13. What is a secondary culture?
14. Differentiate between slot blot and dot blots.
15. Give a brief account of immunotherapy.
16. What is epidemiology?
17. What is a hapten?
18. Give a short note of RFLP.
19. What is bioleaching?
20. Mention the differences between viruses and viroids.
21. Give a short note on SLE.
22. Compare the functions of DNA ligase and DNA polymerase.

(10 × 2 = 20 Marks)

C. Answer any *five* questions. Each question carries 6 marks.

23. Describe various growth stages of bacteria.
24. Give an account of immune mechanism in antitumour immunity.
25. Briefly describe hybridoma technology.
26. Describe the different types of vaccines.
27. Give an account of Gram staining.
28. Explain DNA finger printing.
29. With a suitable diagram describe a bacteriophage.
30. Give brief notes on Bt cotton and knock out mice.

(5 × 6 = 30 Marks)

D. Write essays on any *two* of the following. Each question carries 10 marks.

31. Give an account of transgenic animals. Describe any two transfection methods.
32. Give an account of various cells which take part in immunity.
33. Describe the various industrial products of microorganisms.
34. Briefly describe the different types of antigen and antibody reactions.

(2 × 10 = 20 Marks)
