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NS3S-1570-A-23/24

B.Sc. III Semester (NEP) Degree Examination

ZOOLOGY

Molecular Biology Bio-instrumentation and Techniques in Biology

Paper : DSCC-5 ZOOT3

Time : 2 Hours

Maximum Marks:60

*Instructions to Candidates:*

1. Attempt All the sections.
2. Draw diagrams wherever necessary.

## SECTION - A

I. Answer any Five of the following questions.

(5×2=10)

1. What is Recon?
2. Define Genetic code with an example
3. Heterochromatin.
4. Principle of ultracentrifugation.
5. What is transamination
6. Expand FLISA.
7. What is the principle of beerlambert's law.

## SECTION - B

II. Answer any Five of the following questions.

(5×4=20)

8. Fine structure of gene
9. What is trp operon?
10. What is RNAi, Steps involved in RNAi, Interphases.
11. DNA sequencing (Sanger's Dideoxy method)
12. Principle and Application of Light microscope.
13. Mechanism of Glycosylation and Methylation.
14. Principle and application of spectrophotometer.

**SECTION - C**

**III. Answer any Three of the following questions.**

**(3×10=30)**

15. Genetic code and its salient features.
  16. Explain process of Translation in Eukaryotes.
  17. What is PCR and various steps involved in it.
  18. Principle and application of Agarose gel-electrophoresis.
  19. Principle and application of Electron microscope.
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