

Quadrant IV-Assessment (Module-wise)

Programme: Bachelor of Science (Third Year)

Subject: Zoology

Course Code: ZOD 104

Course Title: Animal Biotechnology

Unit: 04

Module Name: Transformation methods and techniques

Module Number: 31

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MULTIPLE CHOICE QUESTIONS

- 1. Which of the following is true with respect to northern blotting technique?**
 - a. Used to study only RNA
 - b. Used to study DNA.
 - c. Used to study proteins.
 - d. None of the above.
- 2. Which of the following technique is used to study gene expression?**
 - a. Southern blotting technique.
 - b. Northern blotting technique.
 - c. Western blotting technique.
 - d. All of the above.
- 3. Aminobenzyloxymethyl filter paper is prepared by using_____.**
 - a. Whatmann filter paper No.540.
 - b. Coarse filter paper.
 - c. Whatmann filter paper No.240.
 - d. None of the above.
- 4. Northern blot is used for the separation of_____.**
 - a. mRNA.
 - b. DNA.
 - c. Protein.
 - d. Protein DNA interaction.
- 5. During gel electrophoresis, denaturation of RNA is brought about by_____.**
 - a. Application of current.
 - b. Formaldehyde.
 - c. Treatment with EtBr.
 - d. Application of heat.

Answer the following in 20-50 words.

1. With the help of a neat labeled diagram, explain the blotting technique that can be used in diagnosing Crohn's disease.
2. Comment on the applications of Northern Blotting technique in the field of biotechnology.