

**School of Biomedical Science****Bachelor of Science in Medical Biotechnology  
Semester End Examination - Aug 2024****Duration : 180 Minutes  
Max Marks : 100****Sem III - C2UH302T - Molecular Diagnostic***General Instructions**Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

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|-----|---|--------|
| 1)  | List different types of cancer.   | K1(2)  |
| 2)  | Describe the use of recombinant human growth hormone in cellular therapy.                             | K2(4)  |
| 3)  | Discuss the biomarkers involved in genetic disorders.   | K2(6)  |
| 4)  | Illustrate the mechanism behind biomarker based diagnosis.  | K3(9)  |
| 5)  | Demonstrate the principle and methodology of DNA sequencing and its application in disease diagnosis. | K3(9)  |
| 6)  | Compare the applications and advantages of different types of PCR techniques.                         | K5(10) |
| 7)  | Illustrate the methodologies of various types of protein-based diagnostic tools.                      | K4(12) |
| 8)  | Evaluate the methods utilized for identification of DNA/genetic biomarkers.                           | K5(15) |
| 9)  | Elaborate with examples the role of recombinant molecules in immunotherapy.                           | K5(15) |
| 10) | Formulate the challenges and opportunities involved in the genomics of host-pathogen interactions.    | K6(18) |