



VII SEMESTER B.TECH **END SEMESTER EXAM** NOVEMBER 2017

SUBJECT: HEALTH DIAGNOSTICS [BIO 4019]

Max. Marks: **50**

Instructions to Candidates:

- ❖ Answer ALL the questions
- ❖ Missing data may be suitable assumed

1.a	Define Health diagnostics. Give the Importance and applications of health diagnostics.	5
1.b	Discuss about PCR based diagnostics methods for detection of Fragile X chromosome anomalies.	5
2.a	Briefly discuss about a case study of diagnosis of Thalassemia using PCR-SSCP method.	5
2.b	Suggest and elaborate on a DNA diagnostic method in identification of mutation lead disorders.	5
3.a	Discuss in detail about : i) Array based diagnostics in detection of autosomal disorder ii) FISH in detection of chromosome 9-22 translocation	5
3.b	Elaborate on: a) Mucopolysaccharidoses b) Importance of lipid profiling and its format.	5
4.a	Write critical description on: Glycogen storage disorders and Inborn errors of metabolism with examples.	5
4.b	Describe the process of FACS and HLA typing diagnostics.	5
5.a	Give the importance of Conjugation Techniques and Solid-Phase Systems in the field of medical diagnostics.	5
5.b	Discuss about the case study on: Diagnosis of respiratory diseases in detail.	5