



VII SEMESTER B.TECH END SEMESTER EXAM NOVEMBER 2018

SUBJECT: HEALTH DIAGNOSTICS [BIO 4019]

Max. Marks: 50

**Instructions to Candidates:**

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

- 1.a Give a detailed description on importance of Health diagnostics and its impact on public health. 5
- 1.b Elaborate with examples on:
- i) Infectious diseases ii) Parasitic diseases 5
- 2.a Administer a suitable diagnostic method to identify sex chromosomal anomaly with explanation of method. 5
- 2.b Diagnose the case of Fragile X chromosome disorder using a suitable diagnostic method. Give details. 5
- 3.a Discuss about G Banding in detection of autosomal and sex chromosomal disorders with detailed explanation. 5
- 3.b Give a detailed note on:
- a) Amyloidosis b) Haemoglobinopathies 5
- 4.a Give a critical description on advantages of CD Markers in diagnostics. 5
- 4.b Describe the process of Bioassay in diagnostics with an example. 5
- 5.a Give the significance of studying Antigen-Antibody Reactions and Signal Amplification Systems in cell diagnostics. 5
- 5.b Explain in detail about the case study on: Diagnosis of Viral diseases-HIV. 5